CONSTRUCTION NEWS

PROPOSALS

"For Proposals Advertised see the pages immediately following the Construction News Section."

WATERWORKS

Bids Close			See Eng. News-Record
Jan.	5	Galesburg, Ill. Adv. Dec. 11.	Dec. 11
Jan.	5	Whittier, Cal.	Dec. 16
Jan.	5	East Grand Rapids, Mich.	Dec. 26
Jan.	5	Rio, Wis.	Dec. 26
Jan.	5	Collinsville, Okla.	Dec. 26
Jan.	5	San Jose, Cal.	Dec. 26
Jan.	7	Alpaugh, Cal.	Dec. 26
Jan.	7	Heppner, Ore.	Dec. 16
Jan.	9	Akron, O.	Dec. 26
Jan.	14	Phoenix, Ariz.	Dec. 26

SEWERS

Dec.	30	Toledo, O.	Dec. 26
Dec.	31	Cincinnati, O.	Dec. 26
Jan.	5	Rio, Wis.	Dec. 26
Jan.	14	Little Falls, Minn.	Dec. 20
Jan.	15	Duluth, Minn.	Dec. 11
Feb.	2	Kokomo, Ind.	Dec. 16

BRIDGES

Dec.	29	Reading, Pa.	Dec. 16
Dec.	30	Quitman, Ga.	Dec. 20
Dec.	30	Minco, Okla.	Dec. 16
Dec.	31	Michigan	Dec. 26
Jan.	5	Leavenworth, Kan.	Dec. 26
Jan.	5	Annapolis, N. S.	Dec. 26
Jan.	6	Seneca, Kan.	Dec. 26
Jan.	6	Owatonna, Minn.	Dec. 11
Jan.	6	Duluth, Minn.	Dec. 20
Feb.	7	Bethlehem, Pa.	Dec. 11

STREETS AND ROADS

Dec.	29	Indiana	Dec. 26
Dec.	30	Wilkes Barre, Pa.	Dec. 26
Dec.	30	Michigan	Dec. 20
Dec.	30	Texas	Dec. 20
Dec.	30	Denton, Tex.	Dec. 16
Dec.	30	Cincinnati, O.	Dec. 26
Dec.	31	Cincinnati, O.	Dec. 26
Dec.	31	Indiana	Dec. 26
Jan.	2	Waco, Tex.	Dec. 16
Jan.	2	Texas	Dec. 20
Jan.	3	Limestone, Ariz.	Dec. 20
Jan.	5	St. Louis, Mo.	Dec. 11
Jan.	5	Fayetteville, W. Va.	Dec. 20
Jan.	5	Indiana	Dec. 26
Jan.	5	Michigan	Dec. 26
Jan.	5	Leavenworth, Kan.	Dec. 26
Jan.	5	Washington	Dec. 26
Jan.	5	San Bernardine, Cal.	Dec. 26
Jan.	6	Thomasville, Ga.	Dec. 26
Jan.	6	Randolph, W. Va.	Dec. 26
Jan.	6	Fresno, Cal.	Dec. 26
Jan.	6	Williamson, W. Va.	Dec. 26
Jan.	6	Hamlin, W. Va.	Dec. 16
Jan.	6	Indiana	Dec. 26
Jan.	7	New Jersey	Dec. 26
Jan.	7	Palestine, Ill.	Dec. 20
Jan.	9	Fresno, Cal.	Dec. 20
Jan.	12	Texas	Dec. 20
Jan.	12	Bunnell, Fla.	Dec. 26
Jan.	13	Coalinga, Cal.	Dec. 26
Jan.	14	Charleston, W. Va.	Dec. 20
Jan.	15	St. Louis, Mo.	Dec. 11
Jan.	16	La Grange, Tex.	Dec. 20
Jan.	16	Valdosta, Ga.	Dec. 26
Jan.	16	Liberty, Tex.	Dec. 20
Jan.	17	St. Louis, Mo.	Dec. 11
Jan.	19	Finch, Ont.	Dec. 4
Jan.	28	St. Louis, Mo.	Dec. 11

RAILWAYS

Jan.	3	Ontario	Dec. 26

EXCAVATION AND DREDGING.

Dec.	30	Charles City, Ia.	Dec. 26
Jan.	5	Des Moines, Ia.	Dec. 26
Jan.	6	Shawneetown, Ill.	Dec. 26
Jan.	7	Elbow Lake, Minn.	Dec. 20
Jan.	15	Sidney, Ia.	Dec. 26

INDUSTRIAL WORKS

Dec.	30	Newark, N. J.	Dec. 26
Jan.	1	Hamilton, Ont	Dec. 20
Jan.	2	Brooklyn, N. Y.	Dec. 26
Jan.	4	Iowa Falls, Ia.	Dec. 20
Jan.	7	Freehold, N. J.	Dec. 16

Bids Close			See Eng. News-Record
Jan.	7	Pullman, Wash.	Dec. 26
Jan.	10	Salt Lake City, Utah	Dec. 26
Jan.	12	Wakefield, Mass.	Dec. 16
Jan.	15	Montreal, Que.	Dec. 20

BUILDINGS

Dec.	30	Lynn, Mass.	Dec. 16
Dec.	31	Detroit, Mich.	Dec. 20
Dec.	31	Grand Rapids, Mich.	Dec. 20
Jan.	1	Memphis, Tenn.	Dec. 26
Jan.	1	Waterloo, Ia.	Dec. 20
Jan.	1	Bloomer, Wis.	Dec. 11
Jan.	1	Windsor, Ont.	Dec. 20
Jan.	1	Vancouver, B. C.	Dec. 11
Jan.	2	Duluth, Minn.	Dec. 11
Jan.	3	McKeesport, Pa.	Dec. 11
Jan.	3	Woodbine, Ia.	Dec. 11
Jan.	5	Gaza, Ia.	Dec. 11
Jan.	5	Hartford, Conn.	Dec. 20
Jan.	5	Middetown, O.	Dec. 26
Jan.	5	Madera, Cal.	Dec. 26
Jan.	6	Upper Sandusky, O.	Dec. 26
Jan.	8	Fresno, Cal.	Dec. 20
Jan.	8	Laurel, Ia.	Dec. 20
Jan.	10	Kenosha, Wis.	Dec. 11
Jan.	10	Westby, Wis.	Dec. 26
Jan.	13	Ord, Neb.	Dec. 20
Jan.	13	Storm Lake, Ia.	Dec. 4
Jan.	15	Waterloo, Que.	Dec. 16
Jan.	15	Jacksonville, Ill.	Dec. 11
Jan.	15	Charleston, W. Va.	Dec. 26
Jan.	15	East Grand Forks, Minn.	Dec. 26
Jan.	19	Lowell, Mass.	Dec. 11
Jan.	20	Three River, Que.	Dec. 26
Feb.	1	Mitchell, S. D. Adv. Dec. 28.	Dec. 20
Feb.	1	Duluth, Minn.	Dec. 26
May	15	Syracuse, N. Y.	Dec. 11

FEDERAL GOVERNMENT WORK

Dec.	30	Electric Elevators—Stapleton, N. Y.	Dec. 11
Dec.	30	Electric Traveling Cranes — Spec. 4094 — Washington, D. C.	Dec. 16
Dec.	30	Buoys—Spec. 4068—Yorktown, Va.	Dec. 20
Dec.	31	Buildings — Washington, D. C.	Dec. 16
Jan.	2	Lock and Esplanade—Florence, Ala.	Dec. 16
Jan.	5	Remodeling Post Office — Fitchburg, Mass.	Dec. 16
Jan.	5	Sewers—Washington, D. C.	Dec. 20
Jan.	5	Stone — Humboldt Bay, Cal.	Dec. 20
Jan.	6	Alterations to Post Office—Ashland, Ky.	Dec. 16
Jan.	7	Dirigible Hangar — Spec. 4080—Cape May, N. J.	Dec. 16
Jan.	7	Dredging — Los Angeles, Cal.	Dec. 20
Jan.	7	Water Tanks and Towers—Spec. 4103—Annapolis, Md.	Dec. 20
Jan.	7	Pattern Shop—Spec. 4041—Norfolk, Va.	Dec. 26
Jan.	7	Quay Wall—Spec. 4044—Norfolk, Va.	Dec. 26
Jan.	8	Bridge—Santa Clara, Utah.	Dec. 20
Jan.	8	Remodeling Post Office — Springfield, O.	Dec. 20
Jan.	8	Remodeling Post Office—McKeesport, Pa.	Dec. 26
Jan.	10	Barracks and Quarters, etc. —New Dorp, S. I., N. Y.	Dec. 26
Jan.	13	Additional Buildings — Dawson Spring, Ky.	Dec. 16
Jan.	14	Sewers—Washington, D. C.	Dec. 26
Jan.	20	Bridge—Montana	Dec. 26
Feb.	2	Tower and Dwelling—Rincon, P. R. Adv. Dec. 11.	Dec. 11

MISCELLANEOUS

Dec.	29	Cranes—Detroit, Mich.	Dec. 26
Dec.	30	Water Gate Boxes and Covers, Sewer Manhole, Frames and Cover—Jersey City, N. J.	Dec. 26
Jan.	6	Engines—Stockton, Cal.	Dec. 26
Jan.	6	Asphalt, Etc. — Jackson, Miss.	Dec. 26
Jan.	6	Sewer Pipe — Brownstown, Ind.	Dec. 20

Bids Close			See Eng. News-Record
Jan.	7	Dam — New Westminster, B. C.	Dec. 16
Jan.	12	Gravel Screening and Loading Plant — Minneapolis, Minn.	Dec. 20
Jan.	15	Survey Monuments—Toronto, Ont	Dec. 26
Jan.	17	Pipes, etc.—York, Ont.	Dec. 26
Jan.	22	Pipes, Valves, etc. — St. Louis, Mo.	Dec. 11

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., Mt. Vernon—City plans to build new waterworks system, involving 10,266 tons c.i. pipe, at $60 per ton, 1607 valves, 6-24 in., $71,938, 1582 valve boxes, $6.20 each, 2500 cu yd. rock excav., $7 per yd., laying 270,000 ft. 6 in. pipe, $.50 per ft., 68,900 ft. 8 in., $.60, 37,700 ft. 10 in., $.70, 4550 ft. 12 in., $.80, 5680 ft., 16 in., $1.05, 2150 ft. 20 in., $1.20, 3720 ft. 24 in., $1.45, hauling 10,266 tons pipe, $2 per ton, 450,000 lb. lead, $.0675 per lb., etc., total cost, $1,951,399. C. Hick, city engr.

Md., Baltimore—P. O. Kellholtz, 1602 Continental Bldg., consult. engr. to W. A. McGraw, city water engr., presented report covering plans for increasing water supply by obtaining water from the Susquehanna River. Project involves 11 ft. 6 in. unlined tunnel through rock from point above dam at McCall's Ferry (Susquehanna River) to Lock Raven Reservoir, Baltimore Co., a distance of 30 mi., with necessary shafts, 146,000,000 gal. daily capacity, cost $7,664,424; rights of way, pumping machinery, pumping water and the acquiring of additional land at Lock Haven, $3,224,000. Report also suggests an arrangement with Pennsylvania Water & Power Co. to run proposed tunnel underneath the company's power transmission line right-of-way from McCall's Ferry to Baltimore.

O., Rocky River—City receives bids in spring building 4000 ft. 6 in. water mains in Telbir and Shoreland Aves. About $11,000. E. H. Arnold, Rocky River, engr.

Mich., Redford—City plans election in January to vote on $25,000 bonds to lay 6-in. c.i. watermain extensions in various streets. H. J. Wilmarth, Redford, engr.

Minn., Clearwater—City having plans prepared building waterworks system, including tank and pumps. About $60,000. Bradley Eng. Serv., Weber Bldg., St. Cloud, engrs.

Minn., Lake Benton—City having plans prepared extending waterworks system. About $20,000. Bradley Eng. Serv., Weber Bldg., St. Cloud, engrs.

Mont., Butte—City plans to lay 17,580 lin. ft. 2, 4 and 6 in. water pipe, in Thompson Park. About $19,000. Loftus & McDonald, Great Falls, engr.

Okla., Bristow—City voted $20,000 bonds to extend waterworks system. Engineer not selected.

Okla., Madill—City election Jan. 15, to vote on $350,000 bonds to extend waterworks and build new water supply from Mill Creek. Johnson & Benham, Firestone Bldg., Kansas City, Mo., engrs.

Idaho, Rathdrum—City plans to improve waterworks system including laying of 2640 ft. 8 in. pipe, building pumping plant, and well. About $12,500. Engineer not selected.

Ore., Enterprise—City plans election to vote on $120,000 additional bonds to enlarge waterworks system. O. J. Roe, city recdr.

Waterworks (Continued)

Ore., Knappa—City having preliminary plans prepared for gravity water system involving 3.5 mi. c.i. water mains and branches. About $8000. A. Lechner, agt.

Cal., Calexico—City voted $60,000 bonds to extend waterworks system, to include oil burning engine, pumps, motor, cement main canal, fire hydrants, mains, etc. P. B. Steintorf, city clk.

Cal., Los Banos—City purchased West San Joaquin Valley Water Co.'s plant, and plans to move same, install tank, tower and filter and build mains and fire hydrants.

Cal., San Diego—City voted $1,000,000 bonds to build Barret dam, probably single arch cyclopean masonry type. Work will probably be done by day labor under supervision of H. N. Savage, city hydraulic engr.

Ont., Napanee — Town retained E. A. James Co., Ltd., engrs., 36 Toronto St., Toronto, to valuate property of Napanee Water Co. and advise what additions should be made to system, should town decide to purchase same. Election Jan. 1 to vote on bonds for project. Present system worth about $100,000, extensions will probably include 4 mi. 6 in. c.i. pipe, $50,000 and fillers and pumps, $30,000.

Ont., Newmarket—Comrs. York Co., 57 Adelaide St., E., Toronto, having plans prepared by E. A. James Co., Ltd., engrs., 36 Toronto St., Toronto, and will soon receive bids building water supply system, including steel standpipe, in Industrial Home on Eagle St. About $15,000.

BIDS DESIRED

N. C., Lexington—Until Jan. 20, by Town Comrs. improving waterworks system, including brick and concrete pumping station, filter house and filter tubes, concrete and brick auxiliary station, concrete coagulating basin, 500,000 gal. concrete storage reservoir, 3½ mi. c.i. pipe, 3½ mi. 2200-volt transmission line, motordriven centrifugal pumps, accessories and filter plant equipment. J. V. Moffitt, clk.; advertised in this issue.

O., Akron—Until Jan. 9, by H. S. Morse, dir. pub. serv., Delaware Bldg., constructing 4.1 mi. pipe line, together with appurtenances, between Cuyahoga River Pumping Sta. and crossing of Cuyahoga River south of Kent, Contr. No. 164. Alternative bids will be received on "A" furnishing pipe and special castings for 48 in. c.i. line, "B" laying 48 in c.i. line, "C" furnishing and laying 48 in. lock bar steel pipe, "D" furnishing and laying 50 in. riveted steel pipe. G. G. Dixon, engr.; advertised in this issue.

Mich., East Grand Rapids (Grand Rapids P. O.)—Until Jan. 5, by H. P. Hugenholtz, 2224 Ewalthy St., furnishing labor and material for laying 6 and 8 in. watermains, valves and valve boxes in various streets for city. About $20,000.

Wis., Rio—Until Jan. 5, by W. Collins, village clk., furnishing and laying 8289 ft. 6 in. and 1267 ft. 8 in. c.i. pipe, 18 hydrants, three 8 in. and eight 6 in. valves, one 15 h.p. engine, one 150 gal. deep well pump, one 10 in. well, 200-300 ft. deep, 1 elevated tank, 40,000 gal. on 80 ft. tower, one 12 x 18 ft. power house, brick, cement block, concrete or tile; advertised in this issue.

Okla., Collinsville—Until Jan. 5, by city, building water filtration plant, including rein.-con. mixing chamber and settling basins, rein.-con. and brick filter house with machinery, pumps, two 250,000 G.P.D. rapid sand mechanical filters, electrical equipment, sewers, drains, piping, also building roof over present concrete storage reservoir. Noted Aug. 28.

Ariz., Phoenix—Until Jan. 14, by V. A. Thompson, city mgr., furnishing materials, tools and labor for Verde River gravity water supply, involving 32 mi. 36-38 in. concrete, steel or wood pipe line and 25,000,000 gal. rein.-con. covered circular reservoir. V. A. Thompson, city mgr.; advertised in this issue.

Cal., Alpaugh—Until Jan. 7, by Bd. Supervs. Tulare Co., (Visalia), building waterworks system, here. About $25,000.

Cal., San Jose—Until Jan. 5, by Bd. Supervs., Santa Clara Co., digging well and installing pump and motor at county almshouse, here. About $7000. H. A. Pfister, co. clk.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mich., Detroit**—Water Comn. will lay 6880 ft. 6 in. c.i. water pipe, with necessary valves, etc., in Graigwood, Erie, Muirland, Spaulding and Hazelwood Aves., also 15,915 ft. 8 in. c.i. pipe in Six Mile Rd., Lenox, Hanna, Parkside, Muirland, Bartram and Elmdale Aves.; 7205 lin.ft. 6 in. c.i. pipe in Lakewood Blvd., Gratiot, Moran, Hazelwood, Concord, Dearing, and Marion Aves., also 905 ft. 8 in. pipe in Beard, Tennessee and Goitre Aves. Work will be done by day labor.

Sewers

PROPOSED WORK

O., Toledo—H. McClure, city engr., rejected bids received Dec. 9, building 8000 ft. 8-24 in. pipe sewers in Detroit and Sylvania Aves. About $23,000. Work will be readvertised.

Ill., West Frankfort—See "Streets and Roads."

Ill., Wheaton—City plans to build sewage disposal plant, including filter beds, cost, $57,573, also pipe sewer and outlet drain, $20,000. L. T. Ruddock, city engr.

Wis., Wauwatosa—Milwaukee Co. Bd. Administration plans to build extension to sewage disposal tank, involving 200 cu.yd. rein.-con. and 750 ft. 15 in. vitr. pipe. About $30,000. W. S. Shields, 1201 Hartford Bldg., Chicago, Ill., engr.

Minn., Benson—City having plans prepared building combined sewerage system. About $80,000. Bradley Eng. Serv., Weber Bldg., St. Cloud, engrs.

Minn., Lake Benton—City having plans prepared building 12-42 in. storm sewers in various streets. About $75,000. Bradley Eng. Serv., Weber Bldg., St. Cloud, engrs.

Minn., Madelia—City having plans prepared building storm sewers in various streets. About $60,000. Bids will be received on all materials. Bradley Eng. Serv., Weber Bldg., St. Cloud, engrs.

Minn., Paynesville—City having plans prepared building combined sewerage system. About $65,000. Bradley Eng. Serv., Weber Bldg., St. Cloud, engrs.

Okla., Bristow—City voted $20,000 bonds to extend sewerage system. Engineer not selected.

Cal., Calexico—City voted $20,000 bonds to extend sewerage system. P. B. Steintorf, city clk.

Ont., Toronto—City soon receives bids building 6000 ft., 30 in. concrete pipe in Worthington and Sherbrooke Sts. About $25,640. H. J. McAuslan, North Bay, engr.

Ont., Woodstock—Bd. Health having plans prepared by F. J. Wire & Son, engrs., Woodstock, furnishing and laying 2½ mi. 30 in. rein.-con. pipe and building concrete sewage disposal plant. About $93,000.

BIDS DESIRED

O., Cincinnati—Until Dec. 31, by F. Krug, city engr., building 11,830 ft. pipe sewer and 1555 ft. trunk sewer, Madisonville Contr. No. 4.

O., Toledo—Until Dec. 30, by D. H. Goodwillie, Dir. Pub. Serv., building Contr. No. 1 of Ten Mile Creek Intercepting Sewer, involving 18,000 ft. rein.-con., brick or segmental block sewer from junction of Manhattan Rd. and Blvd. following road to river. About $700,000. H. C. McClure, city engr.

Wis., Rio—Until Jan. 5, by city clk., excavating and laying 9289 ft. 6 in. and 1627 ft. 8 in. c.i. pipe sewer, 18 hydrants, etc. About $40,000. W. G. Kirchpffer, 31 Vroman Blk., Madison, engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Chicopee**—City will build 7950 ft. segmental block and vitr. pipe sewers in Driving Park. About $173,000. Work will be done by day labor.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro., received bids Dec. 15, building sewer in (a) Greenpoint Ave. from Queens Blvd. to Hancock St., 2nd Ward, (b) 20th St. from Woodside Ave. to Bway., (c) Buell Pl. from Banks Ave. to crown about 250 ft. south, (d) Merrit St. from 51st St. to Way Ave., (e) Beeckman St. from State St. to Mitchell Ave., (f) Casco St. from Forest Parkway to Yarmouth Ave., (g) Oxford Ave. from Jamaica to Brandon Sts., from J. H. Johnson Constr. Co., (a) $7304, (b) $3311, (c) $7178, (d) $6280, (g) $2652; F. L. Paine, Woodhaven, L. I., (a) $7410; N. Lascalzo, (a) $7587; T. Welsh, (a) $7752, (b) $2993, (c) $7728, (d) $5810, (e) $3853, (f) $2709, (g) $2531; C. Petracca, 175 Spencer St., Brooklyn, (a) $8620, (c) $7803, (d) $5765; Peace Bros., 20 Main St., Flushing, (b) $3692, (e) $6619, (f) $3076, (g) $3052; E. W. Fitzpatrick, 128 3rd Ave., Astoria, (b) $3789, (d) $7141, (e) $5694, (f) $3934; Green Contg. Co., 734 Vernon Ave., Astoria, (c) $7816; H. J. Mullen Contg. Co., Inc., Fulton St., Jamaica, (f) $2500, (g) $2767.

O., Cleveland—City received bids Dec. 19, constructing twelve 8 x 50 ft., concrete grit chambers, laboratory, and [illegible] 140 x 142 ft., concrete, steel and brick screen grit chamber building, including 3680 cu.yd. rein.-con. and 17,877 tons reinforcing and miscellaneous steel, at [illegible] sewage disposal plant, from Amer. [illegible] Co., Marion Bldg., $258,957; McHugh [illegible] West 37th St., $338,730; Masters-Mullen Constr. Co., Electric Bldg., $400,480.

★**O., Hamilton**—City let contract building storm sewers in Hooven, Clinton, Van Hook and Putman Sts., to W. M. [illegible] Hamilton, $12,150.

★**Mich., Detroit**—City let contract building pumping station with electrically operated pumps and Seven Mile Rd. sewer involving 11 ft. 3 in. cylinder sewer with special manhole, to C. A. Handyside & Lothrop Ave. About $26,600.

Ore., Portland—City received bids building sewers in 61st Ave. S. E., and Martins Ave., cement pipe, from Elliott & Scoggan, McKay Bldg., $11,096; Jacobsen-Jensen Co., 407 Stanton St., $11,085; Azar & Co., $10,398; contractors all of Portland.

Bridges

PROPOSED WORK

N. Y., Lockport—Bd. Supervs. Niagara Co. passed resolution appropriating $12,000 for reconstructing present bridge carrying River Rd. over Lewiston Branch of New York Central R. R. Cost $43,250. State will appropriate $19,250 toward cost.

O., Cleveland—Comrs. Cuyahoga Co. plan to build Huron-Lorain high level bridge, 3750 ft. long, 80 ft. wide, concrete and steel superstructure and concrete abutments. About $7,000,000. W. A. Stinchcomb, co. engr.

Wisconsin—State Highway Comn., Madison, plans to rebuild concrete bridges in following counties:

Adams Co., bridge on Trunk Highway No. 13, $1300.

Ashland Co., Trunk Highway No. 13, $3300.

Barron Co., bridge across Pokegama Creek, Trunk Highway No. 14, $3300; across Yellow River Flowage, in Barron, $12,000.

Buffalo Co., Trunk Highway No. 25, Belvidere Twp., $1400.

Burnett Co., Yellow River Bridge, $10,300.

Calumet Co., Trunk Highway No. 47, Chilton Twp., $10,500.

Crawford Co., Tom Price Bridge, Marietta Twp., $6300; 5 bridges on Trunk Highway No. 30, 2 in Scott Twp., $800 each, 3 in Clayton Twp., $1500, $1100 and $1650, respectively; Trunk Highway No. 60, Marietta Twp., $3500.

Douglas Co., Middle River Bridge, Trunk Highway No. 11, $5700.

Eau Claire Co., Clear Creek Twp., $1500; Washington Twp., $2500; Fall Creek Village, $7000.

Juneau Co., Trunk Highway No. 12, $5000; 2 bridges on Trunk Highway No. 21, $3750 each; Trunk Highway No. 71, $3750.

La Crosse Co., 2 bridges on Trunk Highway No. 21, Campbell Twp., $15,000, Campbell and Barre Twps., $4000.

Lincoln Co., 3 bridges on Trunk Highway No. 10, Mile No. 242, $1400, Mile No. 252, $2900, Mile No. 262, $1600.

Manitowoc Co., 4 bridges on Trunk Highway No. 16, one $1050, two $1800 each, and one $1000.

Marathon Co., Jordan Bridge, Stevens Point-Rosholt Rd., $8000.

Monroe Co., 2 bridges on Trunk Highway No. 12, both La Grange Twp., $3000 each.

Oconto Co., bridge on Trunk Highway No. 33, with 10 ft. and 12 ft. spans, $1500.

Oneida Co., 2 bridges on Trunk Highway No. 14, Mile No. 116, $1500, Mile No. 118, $4200, culvert on Trunk Highway No. 14, Mile No. 118, $200.

Outagamie Co., Trunk Highway No. 18, Greenville Twp., $3800.

Pepin Co., bridge in Lima Twp., $1600.

Sawyer Co., bridge across Namekagon River, $7300.

Trempealeau Co., culverts on Trunk Highway No. 11, Gale Twp., $900.

Vernon Co., approach to bridge over Kickapoo River, Trunk Highway No. 11, Readstown Village, $18,000, No. 11, Kickapoo Twp., $1400, No. 11, Franklin Twp., $6000.

Washburn Co., bridge across Shell Creek, Trunk Highway No. 11, $2500; across Yellow River, $6200.

Waushara Co., Trunk Highway No. 21, $1300; Trunk Highway No. 49, $4200.

Bridges (Continued)

Va., Appleton—Outagamie Co. voted bonds to build following bridges:
Baker Bridge, Cicero Twp., $1056.
Capman Bridge, Liberty Twp., $505.
Else Bridge, Liberty Twp., $567.
Evans No. 1 Bridge, Seymour Twp., $899.
Evans No. 2 Bridge, Seymour Twp., $877.
Knoke Bridge, Liberty Twp., $920.
Kuhn Bridge, Cicero Twp., $817.
Pfeiffer Bridge, Buchanan Twp., $788.
Reimer Bridge, Ellington Twp., $772.
Zebel Bridge, Seymour Twp., 883.
W. Hebbe Bridge, Maple Creek Twp., $558.
Finger Bridge, Maple Creek Twp., $1138.
Sickle Bridge, Oneida Twp., $1551. A. G. Brusewitz, comr.

Wis., Luxemburg—Town and Kewaunee Co. (Kewaunee) having plans prepared by Wisconsin Highway Comn., Madison, building Brandle Bridge, to include three 40 ft. concrete girder spans, baluster railing and 24 ft. roadway. About $15,000. M. Shaw, Algoma, co. highway comr.

Wis., Tomahawk—State Highway Comn., Madison, plans to rebuild Tomahawk Bridge, to have six 70 ft. plate girders. About $57,000.

Wis., Wausau—Marathon Co. plans to build bridge in Maine, Emmet, Wein, Frankfort, Hamburg, Wausau, Texas, Cassel, Weston, Kronenwetter and Knowlton Twps., 2 bridges in Bern, Reitbrick, Norrie, Eau Pleine, Kronenwetter, Harrison, Day and Cleveland Twps., 3 in Day Twp. and 4 in Halsey Twp. Total cost, $39,986. Cost will be borne equally by county and townships.

Tex., Ballinger—Runnels Co. having plans prepared building 518 ft. rein.-con. and steel girder bridge, 19 ft. wide, over Colorado River, including removing present structure and addition to present sub-structure. Work involves 805 cu.yd. Class "A" and 355 Class "B" concrete, 139,720 lb. structural and 99,330 lb. reinforcing steel, 1 approach with seven 28½ ft. girder spans, 1 with four 28½ ft. girder spans and two 99 ft. 2 in. steel spans, etc. About $61,432. Hess & Skinner, Southwestern Life Bldg., Dallas, engrs.

Wash., Tacoma—Comrs. Pierce Co. soon let contract building steel bridge over Puyallup River, at Helman-Bowman Crossing. About $35,000. E. A. White, co. engr.

Oregon—State Highway Comn., Portland, soon lets contract building 80 ft. steel span with 280 lin.ft. rein.-con. viaduct over North Yamhill River on McMinnville-West Dayton Rd., Yamhill Co., involving 750 cu.yd. class "A" and 350 cu.yd. class "B" concrete, 50,000 lb. structural steel, 125,000 lb. reinforcing steel, 3100 lin.ft. wooden piling, 724 lin.ft. concrete handrail, etc., cost $10,000; also 1 pile trestle over Chehalem Creek on West Side Highway near Newberg, involving 323 lin.ft. wood deck and 3300 lin.ft. timber piles. C. B. McCullough, Salem, engr.

Cal., San Miguel—San Luis Obispo Co. (San Luis Obispo) plans to build concrete bridge over Salinas River, east of here. About $115,000. W. Burch, co. engr.

Cal., Shandon—San Luis Obispo Co., (San Luis Obispo) plans to build concrete bridge over Estrella Creek, on Shandon-Paso Robles Rd., near here. About $44,000. J. H. Bradhoff, superv.

N. S., Annapolis—Provincial Government, Halifax, plans to build highway bridge over Allen's Creek, to have two 100 ft. spans, rein.-con. flooring and sidewalks. Work involves 67 tons steel. About $12,600. J. M. Rowland, Halifax, engr.

Ont., Simcoe—City election Jan. 5 to vote on $70,000 by-law for 5 steel and concrete bridges. A. Bancroft, alderman.

BIDS DESIRED

Michigan—Until Dec 31, by F. F. Rogers, state highway engr., Lansing, building State Trunk Line Bridge No. 258 over Dead River Mill Pond, 6 mi. north east of Negaunee, 265 ft. long, 20 ft. wide, involving 123 cu.yd. rein.-con., etc.

Kan., Leavenworth—Until Jan. 5, by Leavenworth Co., building one 35 ft. rein.-con. "T" girder bridge and 1 through girder bridge, with three 40 ft. spans. About $25,000. L. C. Clarke, Leavenworth, engr.

Kan., Secenca—Until Jan. 6, by Comrs. Nemaha Co., building bridges and culverts on 8 mi. Woodlawn Rd., Sects. A, B and C. About $96,000. L. P. Price, Seneca, engr.

N. S., Annapolis—Until Jan. 5, by Provincial Highway Bd., Halifax, building superstructure, for following bridges, 6 fixed spans of 102 ft., 1 of 109 ft., 1 of 157 ft., 1 of 294 ft., and 1 swing span of 157 ft. Work involves 849 ton steel, etc. About $116,000. J. M. Rowland, Halifax, engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Pennsylvania—State Highway Dept., Harrisburg, received bids building bridges (a) Armstrong Co., Parks and Gilpin Twps.; (b) Berks Co., Union Twp., (c) Bucks Co., Falls Twp., (1) Sta. No. 704, (2) No. 768, from Farris Eng. Co., Empire Bldg., Pittsburgh, (a) $9877; F. S. Wilson, Kittanning, (a) $10,833; G. W. Ensign, Inc., Kirchey Bldg., Harrisburg, (a) $12,493, (b) $39,270, (c) $33,666, (c-2) $43,167; O. B. S. Co. Phila., (b) $31,157, (c-1) $24,377, (c-2) 28,541; U. G. I. Contg Co., Phila., (b) $31,197.

★**W. Va., Wayne**—Comrs. Wayne Co. let contract building stone masonry for 3 sets of bridge abutments on Project G-1 known as Upper Workman, Lower Workman and Sidney Booth bridge sites, to Lambert & Co., Huntington, $36,635.

★**O., Columbus**—Norfolk & Western R. R., Roanoke, Va., let contract building 600 ft. bridge, 50 ft. wide, steel superstructure, concrete abutments, here to C. R. Cummins Co., Leader-News Bldg., Cleveland. About $200,000. Incorrectly noted in our issue of Dec. 11.

★**Mich., Okemos**—Ingham Co. let steel contract for 90 ft. span low truss steel bridge, with two 20 ft. rein.-con. abutments, 18 ft. wide, over Red Cedar River, near here, involving 37 tons steel, to Brookville Bridge Co., Brookville, O., $4884; concrete work, involving 233 cu.yd. rein.-con., to E. C. Nolan & Son, Detroit, $8030.

★**Ill., Dixon**—Lee Co. let contract repairing Galena Ave. Bridge, here, to Freeport Bridge Co., Freeport, $34,869.

★**Ill., Findlay**—Town let contract building bridge between Sullivan Twp., Moultrie Co. and Okaw and Windsor Twps., Shelby Co., consisting of two 120 ft. spans on center line, 18 ft. roadway, 32 ft. abutments and 34 ft. pier, involving 843 cu.yd. concrete, 46,140 lb. reinforcing steel, to Rochester Bridge Co., Rochester, Ind. About $41,000.

★**Minn., Duluth**—W. H. Borgen, aud. St. Louis Co., let contract building bridges on State Rd. No. 1 as follows: One over St. Louis River, involving 175,000 lbs. structural steel and 324 cu.yd. rein.-con., to M. A. Adams Co., Andrus Bldg., Minneapolis, cost $35,643; 1 over Whiteface River, 75,000 lbs. structural steel and 212 cp.yd. concrete, to Iowa Bridge Co., 717 McKnight Bldg., Minneapolis, $17,700; 4 over Hellwigs Creeks, 659 cu.yd. rein.-con., to J. J. Fredin, Jr., Duluth, $5229, $5886, $5034 and $5684 respectively; 3 bridges involving 410 cu.yd. concrete and 1 bridge involving 20,000 lbs. structural steel and 140 cu.yd. concrete to E. J. Fennelly, Atkins, $3290, $4980, $5950 and $8150 respectively.

★**Ariz., Clifton**—See "Streets and Roads."

★**Wash., Walla Walla**—Walla Walla Co. let contract building 1 concrete bridge at Lowden, 1 at Waitsburg and 3 over Coppel Creek at Dixie, to Union Bridge Co., foot of Fenwick and Kenton Sts., Portland, Ore., $62,267.

Streets and Roads

PROPOSED WORK

Pennsylvania—State Highway Dept., Harrisburg, received no bids Dec. 16, building roads in counties as follows:

Crawford Co., 18,514 ft. 1 course rein.-con. and Hillside vitr. brick, East Mead Twp.

Fayette Co., 9432 ft. 1 course rein.-con. Bullskin and Upper Tyrone Twps.; 26,966 ft. 1 course rein.-con. and Hillside vitr. brick, Dunbar Twp.

Greene Co., 10,620 ft. 1 course rein.-con, Center Twp.

McKean Co., 14,800 ft. 1 course rein.-con. Eldred Twp.

Warren Co., 40,485 ft. 1 course rein.-con. Farmington and Sugar Grove Twps.; 12,012 ft. 1 course rein.-con, Tidioute Boro.; 22,287 ft. 1 course rein.-con. and Hillside vitr. brick, Farmington and Pine Grove Twps.

Pa., Monroe—City plans to grade and pave 20 mi. road on Pocono Mountain, 16 ft. wide, waterbonded macadam on concrete base. About $500,000.

W. Va., Parsons—Tucker Co. having plans prepared by F. A. Parsons, co. engr., grading and draining 9 mi. Haddix Rd. About $60,000.

North Carolina—State Highway Comn., Raleigh, plans to gravel 12 mi. road from Orange Co. line to Pittsboro, Chatham Co.; 22 mi. Pittsboro to Silver City and 16 mi. Lenoir to Catawba, Caldwell Co.; 18 mi. Hamlet to Drowning Creek, Watauga Co.; 16 mi. Lenoir to Wilkesboro, Halifax Co.; hard surface 5.5 mi. Roanoke to Weldon, Richmond Co.; gravel or sandclay 13 mi. Boone to Caldwell Co. line, Watauga Co. 10 mi. Mocksville to Yadkin River Bridge, Davie Co., also build concrete bridge over Yadkin River at Fulton Ferry. W. S. Fallis, state highway engr.

N. C., Greensboro—Comrs. Guilford Co. plan to hard surface 20 mi. Greensboro-Winston-Salem Rd. About $200,000. W. C. Boren, chn.

N. C., Winston-Salem—Forsyth Co. plans to hard surface 20 mi. Winston-Salem-Greensboro Rd. About $200,000. D. W. Harmon, co. engr.

O., East Liverpool—City Council plans to pave 4140 ft. West 6th St. from Diamond to Jefferson Sts., 36 ft. wide, brick block on concrete base. About $28,806. J. W. George, city engr.

O., Lisbon—Columbiana Co. plans to widen and resurface East Liverpool-Wellsville Rd., pave 2.73 mi. Unity-Springfield Rd.; grade 4½ mi. Lisbon-Salineville Rd., 7.2 mi. Hanover-Salem Rd., and 7½ mi. Columbiana-Lisbon Rd. About $362,000. G. Armstrong, co. engr.

Mich., Springwells—City having plans and estimates prepared by G. Jerome, engr., 1331 Majestic Bldg., Detroit, for grading, shaping and surfacing with concrete 3½ mi. Michigan Ave. from Detroit city limits to western corporation line, double roadway each 16 ft. wide. About $100,000.

Ill., Benton—City plans to pave 100,000 sq.yd. streets. About $500,000. C. B. Mantz, city engr.

Ill., Sesser—City receives bids about February building sidewalks. Cost $40,000. C. B. Mantz, Benton, engr.

Ill., West Frankfort—City will pave 60,000 sq.yd. and build storm sewers. About $400,000. C. B. Mantz, Benton, engr.

Wis., Crandon—Forest Co. plans to grade Elvoy Dam Rd., cost $1080, Alvin-Florence Rd., $2161, Alvin Twp.; Crandon-North Crandon Rd., Crandon Twp., $2334; Hiles-Gagen Rd., Hiles Twp., $2161; Loana-Cavour Rd., Laona Twp., $1037; Nashville-Crandon Rd., Nashville Twp., $2593; Armstrong Creek-North Crandon Rd., Caswell Twp., $3602; Newald-Long Lake Rd., Newald Twp., $3085; North Crandon-Alvin Rd., $4321; Bartline-Choate Rd., Wabeno Village, $648; surfacing Main St., $324; Soperton-Otter Lake, east, $2376, Wabeno Village; building concrete bridge west of Laona, Lanoa Twp., $778; concrete bridges and culverts, Wabeno Village, $972. F. J. Rogers, comr.

Wis., East End—Douglas Co. plans to concrete and gravel surface Trunk Highway No. 11, commencing at easterly limits near Bear Creek, in Itasca and extending along Itasca Rd. and Grand Ave. to Spalding Rd., cost $475,000; pave Trunk Highway No. 35, concrete, $220,000; gravel Lakeside Rd., $100,000; Brule-Highland Rd., $50,000; Borea Rd., $60,000; Union St., $20,000; Trunk Highway No. 10, $70,000 and grading Moose River Rd., $25,000.

Wis., Janesville—Rock Co. plans to build Beloit-Monroe Rd., Avon Twp., $6250; Milton-Whitewater Rd., Lima Twp., $7500; Evansville-Albany Rd., Magnolia Twp., $5359, Beloit-Monroe Rd., Newark, Twp.; $7500; Footville-Magnolia Rd., Center Twp., $3000; Edgerton-Stoughton Rd., Fulton Twp., $3000; Middle Rd., Harmony Twp., $3000; Milwaukee Rd., Johnstown Twp., $6000; Evansville-Brodhead Rd., Magnolia Twp., $3000; Madison Rd., Plymouth Twp., $3000; Edgerton-Stoughton Rd., Porter Twp., $3000; Shopiere-Clinton Rd., Turtle Twp., $3000; Haufman Rd., Spring Valley Twp., $1931, and Magnolia-Evansville Rd., Union Twp., $3000. C. E. Moore, comr.

Wis., Kenosha—Kenosha Co. plans to concrete surface Geneva Rd., Bristol Twp., cost, $6300; Milwaukee Rd., $41,000, Sheridan Rd., $4000, Wilmot Rd., $2000, all in Pleasant Prairie Twp.; Burlington Rd., Somers Twp., $67,500; gravel surface Burlington-Kenosha Rd., Brighton Twp., $3150; Wilmot Rd., Randall Twp., $4780; Wilmot Rd., Salem Twp., $5250; Powers Lake Rd., Wheatland Twp., $2400; gravel macadam all county roads except Trunk Highways, Paris Twp., $7240, and all county roads except Trunk Highways, Bristol Twp., $5120. J. F. Herzog, comr.

Wis., Portage—Columbia Co. plans to gravel Surface Trunk Highway No. 65, Caledonia Twp., $3000; clay surface Trunk Highway No. 65, Ft. Winnebago Twp., $3000; grade, drain and gravel surface Trunk Highway No. 44, Scott Twp., $3000, Trunk Highway No. 29, Portage, $4562; grade, drain and surface Portage-Merrimac Rd., Columbus Twp., $3000, Portage-Merrimac Rd., Caledonia Twp., $3000, Rio-Randolph Rd., Courtland Twp., $2700, Co-

Streets and Roads (Continued)

lumbus-Randolph Rd., Fountain Prairie Twp., $1283, Wyocena-Madison Rd., Lowville Twp., $3000, West Town Line Rd., Otsego Twp., $3000, Main St., Fall River Village, $750. J. T. Henton, comr.

Minn., Madelia—City having plans prepared paving various streets. About $100,000. Bids will be received on all types of pavement. Bradley Eng. Serv., Weber Bldg., St. Cloud, engrs.

Minn., Thief River Falls—City having plans prepared for 97,852 yd. paving. Bids will be received on all types of pavement. Bradley Eng. Serv., Weber Bldg., St. Cloud, engrs.

Neb., Cozad—City soon lets contract improving 19 blocks Main and G Sts., 30, 50 and 60 ft. wide, involving 4750 lin.ft., 6 x 20 in. concrete curbing, 6700 lin.ft. concrete curbing and guttering, 6000 cu.yd. earth excav., 29,500 sq.yd. vitr. brick or asphalt. About $125,000. J. R. Marreauly, Grand Island, engr.

Mo., St. Joseph—Buchanan Co. having plans prepared building 20.7 mi. St. Joseph-Atchison Rd., concrete on 5 in. concrete base, cost $818,616; 10.7 mi. road from St. Joseph to Faucett, asphaltic concrete, $400,000; both 18 ft. wide. J. D. Mohler, 1522 South 25th St., engr.

Texas—R. J. Windrow, state highway engr., Austin, soon lets contract surfacing 5.9 mi. Highway No. 3, Federal Aid Project No. 15, about 20 ft. wide, gravel and bituminous. Cost to exceed $25,000.

Tex., Edna—Jackson Co. voted $60,000 bonds to build Highway No. 12. W. W. McCrory, co. judge, W. C. Youngs, Edna, engr.

Tex., Kaufman—Kaufman Co. plans to improve and drain 18.1 mi. Highway No. 15, from Van Zandt Co. line to Big Bushy Creek, 15 ft. wide, 14.32 mi. to be surfaced with bituminous topping, involving 28,240 cu.yd. gravel, 141,500 sq.yd. bituminous macadam, 1160 lin.ft. piling, 90 cu.yd. class A concrete, including steel, etc. About $172,000. T. Bartlett, Kaufman, engr.

Tex., Madisonville—Madison Co. had plans prepared building 25 mi. Highway No. 32 and laterals. Bonds for $50,000 voted for project. J. M. Roberts, co. judge. P. A. McCarthy, Lufkin, engr. Noted July 3.

Colorado—State Highway Dept., Denver, plans to pave roads in following counties:

Adams and Arapahoe Counties, 1.17 mi. Federal Aid Project No. 31, between Denver and U. S. A. General Hospital No. 21, 18 ft. wide, involving 162 lin.ft. 24 in. corrugated metal culverts, 2400 cu.yd. combined earth excav., 12,200 sq.yd. 1 course plain concrete and 19 cu.yd. concrete culvert headwalls, cost $43,957.

Boulder Co., .799 mi. Federal Aid Project No. 37, east from Boulder, 18 ft. wide, 726 cu.yd. earth excav., 8440 sq.yd. concrete, 208 cu.yd. gravel surfacing, 30 lin.ft. 15 in. corrugated iron pipe, 1 bridge, with two 30 ft. I-beam spans, concrete piers and abutments, etc., $14,810; (state to furnish all cement); 1.523 mi. Federal Aid Project No. 36, between Longmont and Denver, 18 ft. wide, 100 lin.ft. 18 in. corrugated metal culverts, 3409 cu.yd. combined earth excav., 16,054 sq.yd. concrete, 397 cu.yd. gravel shoulders, etc., $44,855.

Eagle Co., 2.759 mi. Federal Aid Project No. 78, between Cliff and Minturn, 18 ft. wide, 818 lin.ft. 24 in. corrugated metal culverts, 34,496 cu.yd. combined earth and 14,263 cu.yd. solid rock excav., 14,505 cu.yd. earth borrow, 9 acres clearing, 262 cu.yd. concrete culvert headwalls, etc., $114,503.

Elbert Co., 16.88 mi. Federal Aid Projecta No. 50, between River Bend and Kuhn's Crossing, 24 ft. wide, 80,000 cu.yd. combined earth excav., 58 cu.yd. concrete headwalls for culverts, 770 lin.ft. 15 in. and 180 lin.ft. 24 in. corrugated metal culverts, 9 bridges with 20 ft. spans, etc., $48,447.

Larimer Co., 1.962 mi. Federal Aid Project No. 33, south from Ft. Collins, 18 ft. wide, 2939 cu.yd. combined earth excav., 20,780 sq.yd. concrete, 518 cu.yd. gravel shoulders, 36 lin.ft. 18 in. corrugated metal culverts, etc., $74,682; (state to furnish cement).

Ouray Co., 1.155 mi. Federal Aid Project No. 65, between Ouray and Silverton, 18 ft. wide, 5991 cu.yd. combined earth and 15,292 cu.yd. solid rock excav., 1875 cu. yd. earth surfacing, 160 lin.ft. 15 in. and 20 lin.ft. 24 in. corrugated metal culverts, 1 bridge with 21 ft. span, etc., $68,433.

Summit Co., 2.093 mi. Federal Aid Project No. 28, between Dillon and Kremmling, 24 ft. wide, 7730 cu.yd. combined earth and 7730 cu.yd. solid rock excav., 511 lin.ft. 15-36 in. corrugated metal culverts, 52 cu.yd. concrete headwalls for culverts, $34,377, also 2 bridges with over 20 ft. spans, $4900 and $6100 respectively. J. E. Maloney, state highway engr.

Idaho, Waha—Comrs. Waha Tammany Highway Dist. plan to pave 7 mi. Waha-Tammany Highway to Lake Waha, gravel or waterbound macadam. Cost to exceed $75,000. G. W. Wallace, Lewiston, comr.

Wash., Pullman—City plans election soon to vote on $15,000 bonds to grade and pave roads within city limits. C. M. Hooper, city engr.

Ore., Enterprise—City Council plans election to vote on $50,000 addition bonds to pave with concrete, asphaltic concrete or bitulithic 35 blocks of side streets and alleys. L. C. Kelsey, 410 Selling Bldg., Portland, engr.

Ore., Klamath Falls—City sold $97,031 bonds to drain and pave side streets, concrete and cinder macadam. J. Cleghorn, city engr.

Ore., Medford—Jackson Co. plans to expend $180,000 for road work to be borne as follows: 1 mill market road levy, $55,000; general road tax, $82,500; road district tax, $42,000; sundry sums, $500. Work will include grading and paving with gravel or macadam unpaved portions of county and market roads.

Ore., Milton—City voted $16,000 bonds to pave and drain streets. S. D. Peterson, city atty.

Ore., Pendleton—Umatilla Co. having preliminary plans prepared for location and survey of highway from Pilot Rock through Albee and Ukiah to north fork of John Day River, connecting with Grant Co. road leading to John Day and Canyon City. Cost to exceed $50,000. M. O. Bennett, Pendleton, dist. highway engr.

Ore., Pendleton — Umatilla Co. having plans prepared by A. E. Perry, co. surveyor, for grading and graveling 3 mi. road from Hells to Cold Springs-Pendleton Highway. About $12,000. Farmers along route agree to pay $6000 for grading, county to pay for graveling.

Ore., Portland—City plans to grade and pave East 72nd St. from point 100 ft. east along west line of Katherine, Kensington and Brainard Additions to East Glisan St., concrete or asphaltic concrete, cost $7033; Boise St. from East 39th St. to west line of 42nd St., S. E., $4719. O. Laurgaard, city engr.

Ore., Portland—Multnomah Co. plans to improve Columbia River Highway, cost $37,500; Bertha-Beaverton project, $62,500; 16th St.-Patton Rd. Dr., $55,000; Foster Rd., $42,000; St. Johns River Rd., $43,700; Fairmount Blvd., $140,000; Columbia Blvd., $55,900. Work includes grading, draining and paving with concrete, asphaltic concrete or waterbound macadam. W. A. Eatchel, co. roadmaster.

Ore., Tillamook—Bayocean Rd. Dist. plans to grade and gravel 3 mi. Bayocean Rd. About $30,000. F. B. Stranahan, city recdr.

Ore., Vale—Malheur Co. plans to grade, gravel and build roads. About $100,000. C. C. Meuller, co. treas.

California—State Highway Comn., 515 Forum Bldg., Sacramento, soon receives bids building 7.25 mi. Division Creek Sect. of Inyo Co. Highway, from Independence to end of Indian allotment, to include grading and macadamizing. First unit of road, 2.73 mi., will be built by day labor. Cost to exceed $50,000. A. B. Fletcher, highway engr.

Cal., Los Angeles—Bd. Supervs. Los Angeles receives bids in January or February grading, draining and paving 12,680 ft. Francisquito Ave., oiled macadam. County furnished 9400 ton crushed rock. F. H. Joyner, co. engr.

Cal., Los Angeles—Bd. Pub. Wks. receives bids about January or February, paving 14 blocks San Pedro St., between Jefferson St. and Vernon Ave., 5 in. bituminous base and 2 in. asphalt surface. H. B. Ferris, secy. A. C. Hansen, city engr.

Cal., San Diego—City voted $80,000 bonds to pave 1.9 mi. Tide St., concrete base. F. Rhodes, city engr.

Cal., San Diego—San Diego Co. voted $2,300,000 bonds to pave 135 mi. roads. J. B. McLees, clk.

Cal., San Leandro—City plans election to vote on $10,000 bonds to widen East 4th St.

Cal., San Luis Obispo—Bd. Supvs. San Luis Obispo Co. having preliminary plans prepared building Arroyo Grande-Corbit Canyon Rd., 18 ft. wide, Arroyo Grande, $12,600, 2 mi. road from Ontario House to County Wharf, 18 ft., Avila, $16,400, 13.25 mi. road from Bank and Branch Sts. to old site Huasna Post Office, Huasna, $112,750, 3.75 mi. road from point opposite Southern Pacific Depot on County Rd. to Bridge St. at Grammar School corner, 20 ft. wide, $30,750, all crushed rock [illegible] oil macadam; highway from 1st to 9[illegible] Sts. and from 20th St. to north limits of [illegible], 20 ft. wide, El Paso de Robles, $50,000 [illegible] sur- plus funds to be expended on 13[illegible] St.; Morro, Cayucos-Cambria Rd., 18-20 [illegible] wide, Cayucos, $545,000, concrete; [illegible]ding and graveling 14 mi. road from [illegible] State Highway to west line Superv. Dist. [illegible] 5, 18-20 ft. wide, Templeton, $24,000; [illegible]rad- ing graveling, improving and [illegible]ding Morro Rd. from State Highway in[illegible]sec- tion to Atascadero Lake, Atascadero [illegible] west as far as funds permit, $25,000, rock [illegible]mac- adam, 14 mi. road from Templeton [illegible]el on Templeton-Creston Rd. No. 67 to east [illegible]anch Templeton-Vasa Rd., etc., 16-18 ft. wide, Creston, $16,000; grading and [illegible]ding highway and concrete culverts from Pozo over Pozo-San Juan Grades, 20 ft. wide, $85,000; improving 4800 ft. traffic way at intersection with State Highway, north, 24 ft. wide, Atascadero, rock macadam, $12,000. W. Burch, co. engr.

Ont., Hamilton—City plans to pave 2500 ft. road in cemetary, 18-24 ft. wide. Work involves 1700 sq.yd. waterbound macadam, 40,000 cu.yd. earth fill and a small concrete bridge. About $46,000.

Ont., Toronto—City Council plans to pave Swanwick Ave. from Main to Pichering Sts., asphalt, 24 ft. wide on 5 in. base, cost $36,720; also curb, gutter and pave with asphalt, 28 ft. wide, on concrete base, from Main St. to city limits, $182,441; pave Edna Ave. from Indian Rd. to Indian Grove, bitulithic, $7520; Crown Park Rd., asphalt, $6609. R. C. Harris, City Hall, engr.

BIDS DESIRED

New Jersey—Until Jan. 7, by State Highway Comn., Broad St. Bank Bldg., Trenton, building 9702 sq.yd. State Highway Route No. 4, Sect. 3, Bway. to Scott Ave., South Amboy, Middlesex Co., concrete surface. W. G. Thompson, state highway engr.

Pa., Wilkes-Barre—Until Dec. 30, by F. H. Gates, city clk., repaving with sheet asphalt or asphalt paving blocks, also setting or resetting curbs in various streets.

W. Va., Franklin — Until Dec. 29, by Comrs. Pendleton Co., grading 4.17 mi. Franklin-Petersburg Rd., 26 ft. wide, involving 22,000 yd. excav. About $26,000. G. Boggs, co. clk.

W. Va., Williamson—Until Jan. 6, by E. Boggs, clk. Mingo Co., building portion Pigeon Creek, beginning at intersection of Rd. No. 4 (Williamson-Burch Rd.) with Rd. No. 10, at mouth of Little Buffalo Creek on Pigeon Creek, thence up Pigeon Creek to station 264, total length, 8 mi.; advertised in this issue.

Ga., Thomasville—Until Jan. 6, by Comrs. Thomas Co., building 2½ mi. Dixie Highway, involving 26,400 yd. paving and grading, 28.12 cu.yd. concrete, etc. About $85,000. F. Mitchell, Thomasville, engr. Noted May 15.

Ga., Valdosta—Until Jan. 16, by Comrs. Lowndes Co. building 4.86 mi. Natl. Highway from Valdosta to Mineola, 16 ft. wide, involving 45,940 sq.yd. paving, 8548 yd. excav., etc. About $150,000. Glyce & Hackley, 4th and 1st Bldg., Nashville, Tenn., engrs. Noted June 12.

Fla., Bunnell—Until Jan. 12, by Comrs. Flagler Co., hard surfacing with ojus rock, coquina rock or periwinkle shell, 26 mi. road in Shell Bluff Special Road Dist. About $150,000. S. C. Stattings, Bunnell, engr.

O., Cincinnati—Until Dec. 30, by city, grading, paving with bituminous macadam and building concrete curbs and gutters on 1630 ft. Rulison Ave., 30 ft. wide. About $21,231. F. Krug, city engr.

O., Cincinnati—Until Dec. 31, by city, paving with rein.-con. and building curbs and gutters on 690 ft. Gage St., 24 ft. wide. About $12,000. F. Krug, city engr.

Indiana—By Bd. Co. Comrs. building roads in following counties:

Dec. 29, Madison Co., Anderson, 2483 ft. concrete road, Anderson Twp., known as S. M. Mc Vay Rd., 6272 ft. road, Pipecreek and Duckcreek Twps., known as J. G. Lewis Rd.; 15,800 ft. in Anderson Twp., known as T. J. Nichol Rd. T. Flahavin, aud.

Dec. 31, Bartholomew Co., Columbus, 13,930 ft. crushed stone road, Hancock Twp., known as Fitzpatrick Rd. R. Henderson, aud.

Jan. 5, Ripley Co., Versailles, 10 mi. macadam road, Brown Twp., known as F. Moody et al Rd. J. F. Lockard, aud.

Newton Co., Kentland, macadam road, Beaver Twp., known as E. H. Kessler Rd. S. R. Sizelove, aud.

Blackford Co., Hartford City, crushed stone road, Jackson Twp., known as W. H. Brown Rd. W. C. Hughes, aud.

Streets and Roads (Continued)

Benton Co., Fowler, 15,830 ft. gravel road, Gilboa Twp., known as J. Burling Rd. W. Mankey, aud.

Warren Co., Williamsport, 4065 ft. gravel road, Steuben Twp., known as Lester Ping Rd. W. H. Stephens, aud.

Jaspar Co., Rensselaer, stone road, Walker Twp., known as J. Hine et al Rd. J. P. Hammond, aud.

Jan. 6, Harrison Co., Corydon, stone or gravel road between Posey and Taylor Twps., known as B. Russell et al Rd., 15,520 ft. stone road in Franklin Twp., known as J. Zabel Rd., road in Jackson Twp., known as J. Alitot Rd. S. C. Mauck, aud.

Noble Co., Albion, road in Washington Twp., known as N. S. Stump et al Rd. H. C. Erwin, aud.

Marshall Co., Plymouth, gravel road, Tippecanoe Twp., known as C. M. Urschel Rd., 3 roads in Bourbon Twp., known as A. C. Perry Rd., K. M. Bessinger et al Rd. and O. J. Senour et al Rd., road in Center Twp., known as J. R. Jacoby et al Rd.; road in Polk and West Twps., known as F. B. Haag et al Rd. O. H. Weber, aud.

Parke Co., Rockville, 6290 ft. gravel road, Penn Twp., known as Pierson et al Rd. R. E. Porter, aud.

Jan. 10, Floyd Co., New Albany, 30,180 ft. gravel road, known as Scottsville Rd. J. D. Mitchell, aud.

Jan. 20, Benton Co., Fowler, 15,830 ft. gravel road, Center Twp., known as M. Duffy Rd. W. Mankey, aud.

Allen Co., Ft. Wayne, 15,050 ft. stone road, Perry Twp., known as Hillegass Rd., 15,538 ft. road, Pleasant Twp., known as Smith Rd. A. C. Mc Coy, aud.

Michigan—Until Jan. 5, by F. F. Rogers, state highway engr., Lansing, grading, draining and surfacing 5.984 mi. State Trunk Line Rd., Assessment Dist. No. 127, 16 ft. wide, Ionia Co., involving 56,000 sq. yd. class B gravel. About $60,000.

Ia., Woodbine—City receiving bids for 51,500 yd. concrete pavement, 9000 yd. grading and 26,346 lin.ft. curb and gutters. About $150,000. Huff, Schmidt & Logan, Woodbine, engrs.

Kan., Leavenworth—Until Jan. 5, by Comrs. Leavenworth Co., grading 4.416 mi. Sect. C, Fort to Fort Highway, Federal Aid Project No. 13, 18 ft. wide, concrete, also necessary bridges and culverts on same. About $202,000.

Washington—Until Jan. 5, by J. Allen, state highway engr., Olympia, grading and draining 28 mi. Central Washington Highway from Connell to Lind, Adams and Frankin Counties; 8.6 mi. Inland Empire Highway, from Delaney to Dodge, Columbia and Garfield Counties.

Cal., Fresno—Until Jan. 13, by Bd. Supervs. Fresno Co., paving 10¾ mi. road near Coalinga, concrete and asphalt or patented surface. D. M. Barnwell, co. clk.

Cal., San Bernardino—Until Jan. 5, by J. H. Osborne, city clk., paving 2 blocks 9th St., 4 in. concrete base and ½ in. oil and screenings surface. About $10,000. W. D. Brown, city engr.

Cal., Visalia—Until Jan. 6, by Bd. Supervs. Tulare Co., paving 6 mi. road from Poplar to Woodville, concrete. G. R. Prestidge, co. clk.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. Y., New York—M. F. Loughman, pres. Manhattan Boro., received bids Dec. 15, (a) paving with wood block in and between tracks roadway of Lexington Ave. from 53rd to 79th Sts., (b) with asphalt, Lexington Ave. to 97th St., from Asphalt Constr. Co., 2197 Madison Ave., (a) $83,178, (b) $74,652; J. L. Brustar, Harlem River and 150th St., (b) $76,697; Uvalde Asphalt Paving Co., 1 Bway., (b) $86,950.

★**N. Y., Rochester**—E. S. Walsh, supt. pub. wks., Capitol, Albany, let contract placing and compacting gravel surfacing and building frame freighthouse on terminal site here, Contr. 228, involving 150 cu.yd. excav., 45 cu.yd. 2nd class concrete, 4400 lb. iron castings, etc., to W. F. Martens, 245 Cutler Bldg., $13,493.

★**N. Y., Rochester**—Bd. Constr. & Supply let contract paving, building walks and sewers in Norton St. from Portland Ave. to Waring Rd., to J. Friedrichs Co., Livingston Bldg., $108,729.

★**N. Y., Rochester**—Bd. Contr. & Supply let contract resurfacing Driving Park Ave. and Tryon Park, asphalt, to Ribstein-Holter Co., 16 State St., $11,575 and $21,942 respectively.

Pennsylvania—State Highway Dept., Harrisburg, received bids building roads in counties as follows:

Allegheny Co., 10,453 ft. 1 course rein.-con., Forward Twp., from Foster-Waring Constr. Co., Pittsburgh, $136,081.

Armstrong Co., 10,610 ft. 1 course rein.-con., Kiskiminetas Twp., Summit Constr. Co., Akron, O., $119,883.

Beaver Co., 5443 ft. 1 course rein.-con., North Sewickley Twp., W. S. Morrison, New Brighton, $55,940; 13,592 ft. 1 course rein.-con. and Hillside vitr. brick, Daugherty and New Sewickley Twps., S. B. Markley, Rochester, $150,771, Foster-Waring Constr. Co., Pittsburgh, $155,595; 12,062 ft. 1 course rein.-con. and Hillside vitr. brick, Rochester and Daugherty Twps., S. Gamble Co., Carnegie, $180,921, J. C. Devine Co., Alliance O., $188,309, P. F. Connelly Co., Koppel, $196,562; 5311 ft. 1 course rein.-con., Center Twp., M. J. Scanlon, New Castle, $96,179, Jones Constr. Co., Lisbon Rd., Salem, O., $97,806.

Berks Co., 29,100 ft. 1 course rein.-con., Earl and Amity, Colebrookdale and Oley Twps., Weller Constr. Co., Inc., 816 14th St., Washington, D. C., $221,128, O'Rourke-Horton & Co., Reading, $223,723, Sutton & Corson Co., 9th and Simpson Sts., Ocean City, N. J., $244,895; 14,850 ft. 1 course rein.-con., Tilden and Upper Bern Twps., Bennett & Randall, Lebanon, $105,852, Sutton & Corson Co., 9th and Simpson Sts., Ocean City, N. J., $132,922.

Butler Co., 18,778 ft. 1 course rein.-con., Fairview Twp., M. J. Scanlon, Newcastle, $221,016; 31,663 ft. 1 course rein.-con., Conoquessing and Butler Twps., C. F. Walter, Butler, $316,042.

Carbon Co., 23,420 ft. 1 course rein.-con., Lehigh Twp., Morgan, Wilkes Barre, $232,-607.

Centre Co., 1720 ft. 1 course rein.-con., Bellefonte Boro., F. Murphy, Altoona, $38,-784, Spruks Co., Scranton, $45,248; 5326 ft. vitr. brick, State College Boro., L. E. Kelly, Brooklyn, N. Y., $154,878.

Chester Co., 11,524 ft. 1 course rein.-con., London Britain Twp., Winston & Co., Pottstown, $94,892, H. E. Baton, Front and Norris Sts., Phila., $99,282, M. Staub, Hammonton, N. J., $113,192.

Clearfield Co., 39,911 ft. 1 course rein.-con., Wallaceton Boro., Boggs and Bradford Twps., Warren Bros. Co., 142 Berkeley St., Boston, Mass., $415,451, Dowler & Anderson, Clearfield, $452,580, A. L. Anderson & Bros., Inc., Altoona Trust Bldg., Altoona, $501,776.

Delaware Co., 10,434 ft. 1 course rein.-con., Thronbury Twp., Sutton & Corson, 9th and Simpson Sts., Ocean City, N. J., $92,-829, Continental Contg. Co., 66 Knickerbocker Bldg., Baltimore, $95,759, M. Staub, Hammondton, N. J., $104,855.

Elk Co., 7543 ft. 1 course rein.-con., Ridgway Boro., Miller Constr. Co., Weber Bldg., Punxsutawney, $95,964; 3169 ft. 1 course rein.-con., St. Mary's Boro., C. A. McDonald, 26 South Franklin St., DuBois, $42,621, Fish, Young & Parks, Phila., $47,-262; 25,563 ft. 1 course rein.-con., Horton and Ridgway Twps., Warren Bros. Co., 142 Berkeley St., Boston, Mass., $285,721.

Erie Co., 10,600 ft. 1 course rein.-con., Mill Creek Twp., C. H. Fry Constr. Co., Erie, $70,527, H. Shenk Co., 12th and Sassafras Sts., Erie, $93,561; 21,268 ft. 1 course rein.-con., Girard Twp. and Platea, C. H. Fry Constr. Co., $164,270, H. Shenk Co., $183,780; 21,109 ft. 1 course rein.-con., Green Twp., Summit Constr. Co., Akron, O., $193,399.

Fayette Co., 1125 ft. 1 course rein.-con., Fayette City Boro., L. S. Schultz & Son, Fredonia, N. Y., $14,752, T. Arrigo, Charleroi, $14,755.

Petriello Bros. & Co., South Brownsville, $15,065; 5467 ft. 1 course rein.-con., Henry Clay Twp., Petriello Bros. & Co., $66,072; 3732 ft. 1 course rein.-con. and Hillside vitr. brick, German Twp., Petriello Bros. & Co., $54,106; 15,323 ft. 1 course rein.-con. and Hillside vitr. brick, Perry Twp., T. Arrigo, $161,608.

Greene Co., 12,581 ft. 1 course rein.-con., Center Twp., E. E. Morris and T. R. Huffman, Waynesburg, $201,604.

Lawrence Co., 14,784 ft. 1 course rein.-con., Scott Twp., Aronberg & McDonald, New Castle, $135,000, Burns Bros., New Castle, $136,677, M. J. Scanlon, New Castle, $154,209; 11,625 ft. 1 course rein.-con., North Beaver Twp., M. J. Scanlon, $124,-957, P. F. Connelly Co., Koppel, $127,691, Burns Bros., $134,484.

Montgomery Co., 8596 ft. bituminous surface on concrete foundation or 1 course rein.-con., Hatfield and Towamencin Twps., Fish-Rutherford, Inc., Phila., $73,008, Hill Constr. Co., Phila., $74,767, Warren Bros. Co., 142 Berkeley St., Boston, Mass., $78,-800.

Northampton Co., 18,860 ft. 1 course rein.-con., Palmer Twp., Smith-McCormick & McInerney & McNeal, Inc., Easton, $165,526, A. McMullen Co., Phila., $180,425, H. B. Sproul Constr. Co., Inc., Scranton, $212,750; 28,768 ft. 1 course rein.-con., Allen and East Allen Twps., A. McMullen Co., Phila., $231,883, Weller Constr. Co., 816 14th St., Wash., D. C., $234,812, Smith-McCormick & McInerney & McNeal, Inc., $248,777.

Northumberland Co., 17,569 ft. 1 course rein.-con., Ralpho Twp., Fiss & Christiano, Shamokin Dam, $171,631, Sutton & Corson Co., 9th and Simpson Sts., Ocean City, N. J., $172,284, Mason & Hanger Co., Inc., Paxinos, $173,709.

Potter Co., 8358 ft. bituminous surface course on concrete foundation, or 1 course rein.-con., Shinglehouse Boro., Chenango Constr. Co., Syracuse, N. Y., $89,894, Horn & Devling, Main St., Galeton, $90,766, G. Metzger, Jr., 12 East 4th St. Emporium, $99,021.

Somerset Co., 5900 ft. 1 course rein.-con., Jenner Twp., F. H. Ziegler, Somerset, $48,448, J. F. Norris, Somerset, $53,398, B. J. Lynch Co., Inc., Meyersdale, $54,077.

Susquehanna Co., 3844 ft. 1 course rein.-con. and Hillside vitr. brick, Oakland Boro., M. Barber, Binghamton, N. Y., $38,352, W. E. Bennett, Lanesboro, $45,788, O. B. S. Co., Phila., $59,619.

Tioga Co., 6382 ft. 1 course rein.-con., Westfield Boro., R. J. Delong, 764 West Edwin St., Williamsport, $78,017, J. C. Bradley & Co., Wellsboro, $80,037.

Warren Co., 2080 ft. 1 course rein.-con., Warren Boro., J. P. Morrissey, 309 Central Ave., Dunkirk, N. Y., $39,656.

Westmoreland Co., 9184 ft. 1 course rein.-con. and Hillside vitr. brick, Salem and Unity Twps., McCrady Bros. Co., Braddock, $138,195; 32,047 ft. 1 course rein.-con. and Hillside vitr. brick, Derry Twp., McCrady Bros. Co., $413,866, Langthorn Co., Inc., 2 West 45th St., New York City, $478,205; 57,549 ft. 1 course rein.-con. and Hillside vitr. brick, Delmont Boro., Hempfield, Salem and Washington Twps., Warren Bros. Co., 142 Berkeley St., Boston, Mass., $668,-986.

★**W. Va., Woodsdale** (Wheeling P. O.)—City let contract improving 14,295 ft. road, asphaltic concrete, 20 ft. wide, to Ball Eng. Co., Woodsdale, $92,000.

★**Fla., Jacksonville**—Comrs. Duval Co. let contract paving 6¾ mi. Atlantic Blvd., to J. Y. Wilson Constr. Co., Clark Bldg. About $50,000.

★**O., Cleveland**—City let contract paving Adelbert Rd., to G. B. Herring, 10839 Drexel Ave., cost $7650; East 19th St., to Rieley Bros., The Arcade, $3875. Work involves 540 sq.yd. brick block, 2000 cu.yd. grading and 36,600 sq.yd. to be taken up and replaced with tar filler.

★**O., Hamilton**—City let contract grading and paving streets, building sidewalks, laying storm and sanitary pipe sewers, gas and water mains, in new addition, to Welling & Franz, Cincinnatti. About $60,000.

★**O., Hamilton**—City let contract paving Webster and Sherman Ave. extensions, to Andrews Asphalt Paving Co., Rentschler Bldg., $69,224.

★**O., South Euclid**—Village let contracts for 13,000 cu.yd. grading on (1) Bayard Rd. and 4400 cu.yd. on (2) Wilmington Rd., to C. Wilms, Warrensville, $10,242 and $4477 respectively; 46,000 sq.ft. sidewalk on (1) and 25,000 sq.ft. on (2), both 2½ in. sandstone, to Cleveland Stone Co., 1836 Euclid Ave., Cleveland, $11,590 and $6420 respectively.

★**Mich., Marquette**—Rover Marquette Co. let contract clearing and grading 4.425 mi. Rd. No. 35-D, Marquette and Negaunee Twps., to Hall & Labby, Ironwood, $117,-500; clearing, grading and draining 9.007 mi. Rd. No. 35-E, to Garven-Wavenberg, Appelton, Wis., $160,000.

★**Minn., Duluth**—W. H. Borgen, aud. St. Louis Co., let contracts to S. J. Groves & Sons Co., 105 Kasota Bldg., Minneapolis, for subgrade construction on State Rd No. 1 as follows: 10 mi. Div. No. 1 and 15 mi. Div. No. 2, State Job No. 1903, cost $124,130 and $221,085 respectively; 9.3 mi. State Job No. 1904, $162,192, all without special excavation and rock piled in grubbing.

★**Mo., Lancaster**—Town let contract paving Main St., involving 14,000 sq.yd. vitr. brick, 7500 ft. concrete curb and 3500 cu.yd. earth excav., to Cameron, Joyce & Co., Keokuk, Ia. About $55,000.

★**Okla., Okmulgee**—City let contract for 175,000 yd. concrete pavement, to Park-Moran Co., Okmulgee, Dist. No. 31, $97,183; Dist. No. 32, $12,729; Dist. No. 38, $25,693; Dist. No. 39, $54,720, and Dist. No. 40, $161,882. About $350,000.

★**Ariz., Clifton**—Comrs. Greenlee Co. let contract building Sects. 1 and 2 Clifton-Franklin Highway, Federal Aid Project No. 13, involving 32,000 cu.yd. road, 5000 cu.yd. borrow and 25,000 cu.yd. unclassified excav., 2630 cu.yd. class A concrete in bridges, 634 cu.yd. class B concrete, 2426 cu.yd. excav. for bridges and 84,707 lb. reinforcing steel, etc., to Webster, Webster & Kerby, Clifton, $111,213.

Streets and Roads (Continued)

Ore., Seaside—City Council received only bid grading, draining and paving with concrete, building concrete curbs and sidewalks on 11 streets, from J. H. Tillman, Hammond. About $200,000.

★**Cal., Los Angeles**—Los Angles Co. let contract to Rogers Bros. Co., 350 Merrick St., $65,582, improving 2.4 mi. Harbor Truck Blvd., near Compton, 24 ft. wide and shoulders, involving 500 cu.yd. excav., 12,802 lin.ft. shaping roadbed. 7820 tons placing disintegrated granite, 34,136 sq.yd. 8 in. concrete paving, 22 cu.yd. concrete culverts and 4610 lb. reinforcing steel. County furnishes 7820 tons disintegrated granite, 11,481 bbl. cement and 316,266 sq. ft. weld wire mesh.

Cal., San Francisco—City received bids improving London St. between France and Amazon Aves., involving 2270 lin. ft. concrete curbing, 17,450 sq ft. artificial sidewalks, 5428 cu.yd. earth excav., 1000 sq. yd. vertical fibre, 3162 sq.yd. asphalt, etc., from Flinn & Treacy, 1 Montgomery St., $35,540; Reisch Impvt. Co., 46 Kearny St., $36,818. Former bids rejected.

★**Ont., London**—City will pave 24 mi. various streets. About $640,000. Work will be done by day labor under supervision of H. A. Brazier, city engr.

★**Ont., Toronto**—Bd. Control let contracts to Toronto Comr. of Wks., City Hall, Building asphalt pavements on Bristol Ave., $9908, Herman Ave. $3379, Hiawatha Rd. $13,926, Sackville St. $11,257; granite block pavement on Eastern Ave. from St. Lawrence St. to Broadview Ave. $37,440.

★**Ont., Toronto**—Bd. Control let contract to Godson Contg. Co., Manning Chambers, building asphalt pavements on Kennelworth Ave., $3157, Alven Ave. from Heath St., E., to Glen Elm Ave., $4959, Don Crest Rd. from 3rd St. to Ozark Crescent $7661, Weston Rd. $3481; Ramsey Contg. Co., 39 Indian Rd., concrete sidewalk, Erie Terrace from Queen to Gerard Sts., $2.23 per lin. ft., total $4000; Warren Bituminous Paving Co., McKinnon Bldg., bitulithic pavement on Exeter Ave. from Laughton to East End, $5871.

★**Ont., Toronto**—City Council let contract to Godson Constg. Co., Manning Chambers, building asphalt pavements on Greenwood Ave., $4296, Furness Ave., $6200, concrete curbing on Strathmore Blvd., $.80 lin.ft., to Comr. of Wks., City Hall, concrete sidewalks on Bay St. $.34 sq.ft., asphalt pavements on Bathgate Ave., $8488, Baltic Ave., $5604, Linsmore Crescent, $10,385 and Strathmore Blvd., $8351. Noted July 10.

Railways

PROPOSED WORK

Ont., Hanover—See "Industrial Works."

BIDS DESIRED

Ontario—Until Jan. 3, by City of Toronto, building 3 mi. double track railway from Toronto to Mount Pleasant, involving earth excav., fill, ballast and 6 mi. transmission line. About $750,000. R. C. Harris, City Hall, Toronto, engr. Noted Aug. 21.

Excavation and Dredging

PROPOSED WORK

Miss., Cleveland—Excavation—Drainage Comrs. Lead Bayou D.D. Bolivar Co. soon lets contract for excavating following ditches: Horseshoe Bayou, 16,000 ft. long, involving 105,380 cu.yd. excav. and 51.40 acres clearing of right of way; East Main, 17,800 ft. long, 77,892 cu.yd. excav., and 62 acres clearing; East Main, 13,000 ft. long, 62,908 cu.yd. excav.; Lateral No. 9, 1700 ft. long, 5290 cu.yd. excav. and 3.5 acres clearing; Lateral No. 3, 4000 ft. long, 9190 cu.yd. excav. and 3 acres clearing; Lateral No. 5, 5500 ft. long, 3700 cu.yd. excav.; West Main, 36,100 ft. long, 151,000 cu.yd. excav. and 101.1 acres clearing; West Main, 13,700 ft. long, 101,900 cu.yd. excav.; Lateral No. 1, 9800 ft. long, 49,728 cu.yd. excav. and 20 acres clearing; Lateral No. 2, 3700 ft. long, 21,074 cu.yd. excav. and 8 acres clearing; Lateral No. 7, 5500 ft. long, 15,860 cu.yd. excav. and 11 acres clearing; Lateral No. 8, 3000 ft. long, 9330 cu.yd. excav. and 6 acres clearing; South Main, 12,600 ft. long, 63,200 cu.yd. excav. and 45 acres clearing; South Main, 9200 ft. long, 43,480 cu.yd. excav.; Lateral No. 6, 14,500 ft. long, 81,000 cu.yd. excav. and 30 acres clearing. W. W. Boone, engr.

Tenn., Memphis — Irrigation — Big Creek D. D. having surveys made of 12,000 acres north of Memphis preparatory to reclamation. About $150,00. Gaines & Carlisle, Memphis, engrs.

Minn., Elk River—Ditch—Comrs. Sherbourne Co. receive bids about February, building D. D. No. 27, involving 13,229 cu. yd. dirt excav., laying 3944 ft. 8-18 in. sewer pipe, head walls, culverts, etc. About $27,000. Former bids withdrawn. F. W. Nickerson, Elk River, engr.

Mont., Laurel — Ditch — Cove Ditch Co. plans to enlarge ditch, to irrigate 65,000 acres. About $200,000. B. C. Lillis, engr.

Mo., Bigelow—Drainage—Bd. Supervs. Squaw Creek D. D., Holt Co., have asked engineers to submit on or before Jan. 15, complete and comprehensive plans for reclamation of said district, comprising 29,000 acres of land. F. Walker ,Bigelow, secy. bd. supervs.

Washington—Special commission appointed by State of Washington with I. E. Goodner, state office engr., Salem, making preliminary surveys and plans for diverting water from Pend Oreille River for irrigation of 2,000,000 acres in big bend of Snake and Columbia Rivers.

Ore., Grants Pass—Ditch, etc.—H. J. Sisty and J. N. Britten filed application with P. A. Cupper, state engr., Salem, for appropriating 50 second ft. of water from Soldier Creek for placing mining and building ditch, headgate and dam. About $12,000.

Cal., Grass Valley—Irrigation—State will make preliminary investigatoins to determine possibilities for irrigation from Yuba River watershed, of large area in Nevada and Yuba Counties. W. F. McClure, Forum Bldg., Sacramento, state engr.

Cal., Westpoint—Canal—See "Industrial Works."

BIDS DESIRED

N. J., Jersey City—Excavating—Until Dec. 30, by F. A. Dolan, city clk., for rock excavation and removal of same in water pipe trench, Webster Ave. from North St. to Paterson Plankroad.

Ill., Shawneetown—Drainage—Until Jan. 6, by Comrs. Rocky Branch D. D., Gallatin Co., cutting ditches, laying tile drains, and building concrete spillway or retaining bottom, involving 105,239 cu.yd. excav. and 498 rods 12-18 in. tile. R. J. Mills, comr.

Ia., Charles City—Irrigation—Until Dec. 30, by Comrs. Floyd Co., furnishing labor and materials for building D.D. No. 9. Work involves 1500 ft. open ditch, 1 concrete bulkhead, 26 intakes and laying 112,623 ft. 6-36 in. tile. C. R. Jones, aud.

Ia., Charles City—Irrigation—Until Dec. 30, by Comrs. Floyd Co., furnishing labor and material for building D. D. No. 10. Work involves 19 manholes, 32 intakes, 1 bulkhead and laying 20,424 ft. 8-36 in. No. 2 vitr. pipe sewer. C. R. Jones, aud.

Ia., Des Moines—Drainage—Until Jan. 5, by F. J. Alber, aud. Polk Co., building D.D. No. 25. Project consists of widening, straightening and deepening 14 mi. Skunk River across northeastern part of county involving 1,151,360 cu.yd. earth excav. for channel, building levees, etc.

Ia., Sidney—Ditch—Until Jan. 15, by H. C. Swanson, aud. Fremont Co., building East Nishnabotna Ditch No. 4, with Laterals A and B, main ditch, 10.64 mi. long, 24 ft. wide, involving 836,000 cu.yd. earth excav., Lateral A, 3900 ft. long, 4 ft. wide, 6000 cu.yd. earth excav., Lateral B, 6500 ft. long, 4 ft. wide, 7000 cu.yd. earth excav.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**O., Ashtabula**—Excavation—City Council let contract excavating new spray pond in connection with municipal lighting plant, to E. J. Inman, $18,806.

Industrial Works

Mass., Springfield—See "Buildings."

Mass., Woburn—Crescent Leather Co. having plans prepared by Vaughn & Meyer, archts. and engrs., Security Bldg., Milwaukee, Wis., for two 3 story, 50 x 240 ft. brick and mill construction, tanneries, brick foundation. About $175,000.

Mass., Worcester—See "Buildings."

Mass., Worcester—Olson Mfg. Co., 54 Commercial St., plans to build factory on Barber and Wiley Aves. Architect not selected.

Mass., Worcester—J. Rice, archt., 306 Main St., receives bids about Jan. 10, building 1 story, 160 x 186 ft., concrete service station and salesroom, concrete flooring and foundation, for Franklin Motor Car Co., 3 King St. About $70,000.

Mass., Worcester—Sanford Riley Stoker Co., 25 Foster St., plans to build 1 story, 30,000 sq. ft., brick and concrete plant, concrete flooring and foundation, on West Boylston St. About $60,000. Private plans.

Conn., Hartford—See "Buildings."

Conn., Naugatuck—Lockwood-Green Co., archts. and engrs., 101 Park Ave., New York City, receive bids about ... building 4 story, 60 x 80 ft., brick and steel factory, rein.-con. flooring, concrete foundation, for Naugatuck Co., c/o architects. About $70,000.

Conn., New Haven—Lockwood-Green Co., archts. and engrs., 101 Park Ave., New York City, receive bids about ... building 3 story, 80 x 100 ft., brick, rein.-con. and steel factory, rein.-con. flooring, concrete foundation, for A. C. Gilbert Co., c/o architects. About $80,000.

Conn., Thomaston—Seth Thomas Clock Co., c/o Lockwood-Green Co., archts. and engrs., 101 Park Ave., New York City, soon receives bids building 2 story, 60 x 120 ft. and 4 story, 60 x 120 ft., rein.-con. and steel factories, rein.-con. flooring, concrete foundation.

N. Y., Brooklyn—F. Huber, 314 Park Ave., having plans prepared by W. B. Wills, Inc., archts. and engrs., 1101 Myrtle Ave., for 2½ story, 100 x 100 ft., brick and steel storage plant, rein.-con. flooring, concrete foundation, on Grand Ave. About $50,000.

N. Y., Brooklyn—Hudson Bag Co., 77 Washington St., receives bids about Dec. 29, building 2 story, 200 x 265 ft., brick and steel factory and warehouse, rein.-con. flooring, concrete foundation, on Bogert, Scholes and Meserole Sts. About $150,000. L. Allmendinger, 20 Palmetto St., archt. and engr.

N. Y., Brooklyn—L. Allmendinger, archt. and engr., 20 Palmetto St., receives bids about Jan. 2, building 1 and 2 story, 50 x 217 ft., brick and steel plant, rein.-con. flooring, concrete foundation, on Flushing Ave., for Kirsch & Hersel, 214 Scholes St. About $30,000.

N. Y., Brooklyn (Bay Ridge)—Knickerbocker Ice Co., 1480 Bway., New York City, soon lets contract building 1 story, 70 x 100 ft., rein.-con. and steel plant, rein.-con. flooring, concrete foundation. About $80,000.

N. Y., Lockport—Bd. Supervs. Niagara Co. plans to establish stone crushing plant at old poor house farm. About $25,000. Address J. W. Turner, Jr., 80 East Ave.

N. Y., Long Island City—J. Clark, c/o B. R. Swartburg, archt. and engr., 103 Park Ave., New York City, having plans prepared for 8 story, 100 x 150 ft., rein.-con. and steel factory, rein.-con. flooring, concrete foundation. About $380,000.

N. Y., Long Island City—B. J. Johnson Soap Co., c/o Lockwood-Green Co., archts. and engrs., 101 Park Ave., New York City, having plans prepared for 4 story, rein.-con. and steel warehouse, rein.-con flooring, concrete foundation. About $250,000.

N. Y., Massena—J. Dunlop Sons Co., 19 Madison Ave., New York City, plans to alter and build additions to 2 plants on East Orms St., here. Cost, including machinery, $100,000. A. L. Brockway, 3rd Natl. Bank Bldg., Syracuse, archt.

N. Y., Mount Morris—Perry Knitting Co. purchased Seymour Opera House and plans to alter, build additions and install machinery in same for its own use. About $100,000. F. C. Miller, mgr.

N. Y., New York—L. Schurmacher, 1128 Bway., having plans prepared by L. A. Sheinart, archt. and engr., 192 Bowery, for 2 story, 75 x 130 ft., brick and steel garage, rein.-con. flooring, concrete foundation, at 1124 1st Ave. About $25,000.

N. Y., Rochester—Natl. Fire Escape Corp. recently incorporated with $250,000 capital stock plans to build modern assembly plant. About $150,000. Address G. Y. Webster, Wilder Bldg.

N. Y., Syracuse—Battery Serv. Co., Inc., 562 East Genesee St., receives bids about Mar. 1, building 1 story, concrete and steel factory. About $50,000. M. E. Granger, Gurney Bldg., archt. and engr.

N. Y., Syracuse—C. G. Hanna Co., South Clinton St., plans to build 4 story, 132 x 133 ft., concrete and steel factory, rein.-con. flooring, concrete foundation, on East Genesee St. About $165,000. Architect not selected.

N. J., Harrison—Lockwood, Green & Co., archts., 101 Park Ave., New York City, receive bids about Jan. 7, building 3 story, 50 x 100 ft., rein.-con. and steel extension to shipping and factory buildings, for Driver-Harris, Middlesex St.

N. J., Harrison—Lockwood, Green & Co., archts., 101 Park Ave., New York City, receive bids about Jan. 5, building 6 story, 80 x 200 ft., rein.-con. and steel factory, rein.-con. flooring, concrete foundation, for Driver-Harris, Middlesex St.

Industrial Works (Continued)

Pa., Scranton—Klots Throwing Co., c/o Lockwood, Green & Co., archts., 101 Park Ave., New York City, receives bids about Jan. 5, building 2 story, 116 x 200 ft., rein.-con. and steel factory, rein.-con. flooring, concrete foundation, here.

Md., Baltimore—L. Miller, 5 Lloyd St., receives bids about Jan. 15, building 2 story, 45 x 50 ft., dairy and cold storage plant, concrete and brick, concrete foundation, at 5-7-9 Lloyd St. About $50,000. G. R. Callis, Melvin Ave., Catonsville, archt.

Va., Petersburg—Steward Trunk & Bag Co. and F. A. Bishop, archt., Petersburg, soon receive bids building 2 story, 30 x 85 ft., concrete and brick factory, rein.-con. flooring, concrete foundation, on High St. About $25,000.

N. C., Greensboro—J. E. Sirrine, engr., Greenville, S. C., soon lets contract building 1 story, 60 x 110 ft., brick and timber addition to mill, for Pomona Mills, Greensboro.

S. C., Bamberg—J. E. Sirrine, engr., Greenville, soon lets contract building 2 story, 52 x 375 ft., brick and timber addition to cotton mill, for Bamberg Cotton Mills.

S. C., Orangeburg—J. E. Sirrine, engr., Greenville, soon lets contract building 1 story, 65 x 90 ft. mill construction warehouse, cement concrete flooring for Santee Mills.

O., Bucyrus—Halliday Motors Co. purchased site and plans to build factory covering 40,000 sq.ft. floor space. T. E. Huth, pres.

O., Cincinnati—E. H. Bardes Range Co., Colerain and Alfred Sts., plans to build 2 story, 85 x 102 ft., rein.-con. pattern shop. Kruckemeyer & Strong, St. Paul Bldg., archts.

O., Cleveland—Bender Auto Co. soon lets contract building 1 story, 100 x 250 ft., concrete, steel and brick factory, rein.-con. flooring, concrete and brick foundation, on West 65th St. and Denison Ave. About $150,000. Address H. Bender, c/o Northern Blower Co., Barberton Ave. R. M. Hulett, Fire Bldg., archt.

O., Cleveland—M. Hinkel, pres. Hinkel Motor Truck Corp., 6521 Euclid Ave., plans to build 2 story, 150 x 200 ft., concrete, steel and brick garage and salesroom, rein.-con. flooring, concrete foundation, on East 71st St. and Carnegie Ave. About $100,000. Whitworth & Johnson, Engineer's Bldg., archts.

O., Dayton—Allsteel Ridewell Tire & Rubber Co., Dayton Savings & Trust Bldg., plans to build 3 story, rein.-con. factory, rein.-con. flooring, concrete foundation. About $100,000. Architect not selected.

O., Dayton—Dayton Pneumatic Tool Co., Chapel Rd., plans to build 2 story, 100 x 100 ft., rein.-con. and brick addition to factory, rein.-con. flooring, concrete foundation. About $75,000. Architect not selected.

O., West Barberton—Portage Rubber Co. having plans prepared and soon receives bids constructing power plant and office building. About $200,000.

Ind., Indianapolis—Van Briggle Chemical Co., 429 North Capitol Ave., plans to build 3 story, 160 x 200 ft., rein.-con. and terra cotta factory, concrete foundation, on 16th St. and Capitol Ave. About $125,000. C. E. Bacon, Merchants' Bank Bldg., archt.

Mich., Detroit—Clayton & Lambert Mfg. Co., Beaubien St., plans to build power plant, also 1 and 2 story, rein.-con., brick and steel factory, rein.-con. flooring, concrete foundation, along tracks of Detroit Terminal Ry. About $500,000.

Mich., Detroit—Columbia Motors Corp., 1256 East Jefferson Ave., having plans prepared by H. H. Lane, engr. and archt., Dime Bank Bldg., for 2 and 3 story, 300 x 720 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation, on Fort and Boyd Sts. About $600,000. Noted June 19.

Mich., Grand Rapids—Sonneveld Bros., 815 Leonard St., N. W., having plans prepared by P. Lindhout, archt., 817 Lake Drive, for 2 story, rein.-con., brick and steel addition to bakery and storage building, rein.-con. flooring, brick foundation. About $40,000.

Mich., Muskegon—See "Miscellaneous."

Ill., Chicago—Illinois Glass Co., Alton, acquired 157,462 sq.ft. of land on North Crawford and Wrightwood Aves. and plans to build plant. About $250,000.

Ill., Jacksonville—City plans to build additions to steam power plant. About $40,000. C. M. Borchers, mayor.

Wis., Marinette—Amer. Toy Horse Co. plans to build two 1 or 2 story, 100 x 200 ft., rein.-con. and brick factories, rein.-con. flooring, on Water St. About $150,000. H. Greene, 425 East Water St., Milwaukee, pres. Architect not selected.

Wis., Milwaukee—M. Tullgren & Sons, archts., 425 East Water St., soon let contract building 2 story, 60 x 100 ft., rein.-con. and brick factory, rein.-con. flooring, concrete foundation, for Genl. Mfg. Corp., 1520 Buffum St. About $50,000.

Wis., Racine — Racine Confectioners' Mchy. Co., 1630 Racine St., having plans prepared by D. R. Davis, archt. and engr., 526 Wisconsin St., for 1 story, 38 x 120 ft. machine shop and 2 story, 50 x 165 ft. factory, brick and concrete, rein.-con. flooring. About $60,000.

Wis., Waukesha — Bethesda Mineral Spring Co., 301 Dunbar Ave., plans to build 1 or 2 story, 40 x 60 ft., rein.-con. and brick plant, rein.-con. flooring, concrete foundation. About $25,000. Van Ryn & De Gelleke, Caswell Blk., Milwaukee, archts. and engrs.

Minn., Duluth—Minnesota Steel Co., Wolvin Bldg., having plans prepared and receives bids about spring extending blast furnace plant, here. Work involves building 175 concrete block houses at Morgan Park, (company's model town for housing employes), cost $2,000,000; rod and wire mills, cost $3,000,000, including conversion of rail mill into billet mill, now under construction by day labor. Project also includes 3 additional blast furnaces, 14 open-hearth furnaces and a unit of 16 soaking pit furnaces, cost $10,000,000.

Minn., Minneapolis—Berger Mfg. Co., 300 10th Ave., S., having plans prepared by W. C. Westbey, archt., c/o owner, for 1 story, 80 x 112 ft., timber addition to factory, on Ulysses St. and Bway., N. E. About $60,000.

Minn., Minneapolis — Harris Realty Co., New England Bldg., having revised plans prepared by C. L. Kinport, archt., Andrus Bldg., for 2 story, 100 x 120 ft., rein.-con. and brick garage, on Lincoln and Aldrich Aves., S. About $52,000. Former bids rejected.

Wash., Olympia—Olympia Door Co. plans to build 2 story frame factory, concrete foundation, 150,000 ft. daily capacity, adjoining present plant. About $25,000. Private plans.

Wash., Sedro Wooley—T. Jungmeyer plans to build 1 story, 40 x 90 ft., brick garage, concrete foundation. About $50,000. Private plans.

Wash., Spokane—Centennial Mills, Ltd., 817 Howard St., plans to build 8 story mill with 27 rein.-con. tanks, 1,000,000 bu. capacity, and 7 story warehouse, 250,000 bu. capacity; both rein.-con., rein.-con. flooring. About $1,000,000. A. E. Witherspoon, Spokane, engr.

Ore., Doris (Ranier P. O.)—Associated Lumber & Box Co., Klamath Falls, plans to build 1 story frame factory, concrete foundation, here (25,000,000 ft. yearly capacity). About $25,000. Private plans.

Ore., Portland—Montgomery Ward & Co., 581 Upshur St., plans to build 8 story, 280 x 600 ft., mail order house, 1st unit, 280 x 300 ft., at Guilds Lake Dist. About $1,500,000. W. Q. Bateman, local mgr. W. H. McCaully, 2701 Mildred Ave., Chicago, engr.

Ore., Salem—Puyallup & Sumner Co. plans to build 2 story frame and concrete cannery, concrete foundation, in suburbs. About $50,000. Architect not selected.

Cal., Emeryville—W. J. Miller, archt., 417 Market St., San Francisco, soon receives bids building 2 story, brick factory, concrete foundation, for Amer. Rubber Co., Emeryville. About $100,000.

Cal., Westpoint—Mokelumne River Power & Water Co., San Mateo, plans to build one 6000 h.p. and 12,750 h.p. hydro-electric plants, 2 diversion canals, 4½ and 5½ mi. long, loose rock and concrete dam and reservoirs in south, middle and north forks of Mokelumne River. About $1,288,500.

Que., St. Hyacinthe—E. H. Richer plans to build 4 story, 175 x 225 ft., steel and brick factory, concrete foundation, on Ioli St. About $200,000. Architect not selected.

Que., St. Jerome—Regent Knitting Co., Ltd., Duluth and St. Lawrence Sts., Montreal, soon lets contract building 2 story, 50 x 75 ft., concrete and brick factory, rein.-con. flooring, on Notre Dame St. About $85,000.

Ont., Hanover—Hanover Portland Cement Co. plans to build quarry plant and 7 mi. light railway from present plant to quarry. About $200,000.

Ont., St. Thomas — Watt & Blackwell, archts., Bank of Toronto, London, preparing plans and receive bids about Jan. 5, building 3 story, 40 x 125 ft., rein.-con. plant, here, for Aylmer Laundry Co., Aylmer. About $75,000.

Ont., Toronto—Auto Serv Co., 139 Pears Ave., having plans prepared by Banigan & Thompson, archts and engrs., 7 King St., E., for 6 story, brick and concrete garage, rein.-con. flooring, concrete foundation, on Richmond St. About $600,000.

Ont., Woodstock—Brunswick Canadian Products Co. plans to build concrete, steel and brick factory, rein.-con. flooring, concrete foundation. About $200,000. Architect not appointed.

BIDS DESIRED

N. Y., Brooklyn—Until Jan. 2, by Zipkes, Wolff & Kudroff, archts. and engrs. 25 West 42nd St., New York City, building 2 story, 100 x 125 ft., brick and steel warehouse, rein.-con. flooring, concrete foundation, on North Portland Ave., for H. De Angelis, 4-6 Park Ave. About $75,000. Noted July 10.

N. J., Newark—Until Dec. 30, by W. Steele & Sons Co., archts., 16th and Arch Sts., Phila., building 1½ story, 121 x 250 ft., rein.-con. factory, for Morris Twine Co.

O., Cleveland—Until Dec. 29, by W. J. Carter, engr., Illuminating Bldg., constructing 60 x 120 ft. factory, concrete foundation, at 1787 40th St., cost $60,000, 55 x 160 ft., factory, brick foundation, at 4415 Perkins Ave., $75,000, 60 x 160 ft. warehouse, concrete foundation, at 4400 Hough Ave., $60,000, all 3 story, steel and brick, for Amer. Stove Co.

O., Cleveland—Until Dec. 29, by W. S. Lougee, archt., Marshall Bldg., constructing 4 story, 100 x 110 ft., steel and brick factory, brick foundation, on Barberton Ave., for Colonial Woolen Mills Co., 6409 Barberton Ave. About $80,000. J. N. Hahn, pres.

O., Sidney—Sidney Mfg. Co., East Ave., receiving bids building 3 story, 30 x 82 ft., steel and brick factory, rein.-con. flooring, brick foundation, on Clinton St. About $50,000. United States Structural Co., City Natl. Bank Bldg., Dayton, archts.

Ill., Chicago—W. G. Uffendel, archt., 39 South State St., receiving bids constructing plant, including 2 story, 125 x 190 ft. main building, 2 story, 47 x 95 ft. office building, and 1 story, 47 x 66 ft. boiler house and garage with 1 story wing, all rein.-con. and brick, rein.-con. flooring, concrete foundation, at 2701 Greenview Ave., for Economy Fuse & Mfg. Co., 328 West Kinzie St. About $150,000.

Ill., Chicago—Mutual Broom Co., 1505 South Halstead St., receiving bids building 2 story, 100 x 125 ft., brick and timber factory, concrete foundation, on Ogden Ave. and Polk St. About $60,000. A. L. Himelblau, 179 West Washington St., archt.

Utah, Salt Lake City—Until Jan. 10, by Salt Lake Stamp Co., 65 West Bway., building 2 story, 35 x 110 ft., rein.-con. factory, on 3rd S. and 1st W. Sts. About $50,000. Gunther & Cannon, Deseret Bank Bldg., archts.

Wash., Pullman—Until Jan. 7, by T. C. Martin, building 2 story, 120 x 120 ft., brick and terra cotta garage and shop, on Grand and Oleson Sts. About $40,000. W. Swain, Pullman, archt.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Mass., Brookline (Boston P. O.)—See "Buildings."

★Mass., Cambridge—Cambridge Terminal Co. let contract building 9 story, concrete warehouse, to F.T. Ley Co., 185 Devonshire St., Boston. About $5,000,000.

★Mass., Everett (Boston P. O.)—Everett Factories Corp., 210 Bway., let contract building 4 story, brick and steel plant, concrete foundation, on Charleton St., to Clark & Lee Co., 201 Devonshire St., Boston. About $60,000.

★Mass., New Bedford—W. Whitman Co., 78 Chauncey St., Boston, let contract building brick and rein.-con. mill, picker house, storehouse and office, rein.-con. flooring, to L. E. Locke Constr. Co., Bay State Bldg., Lawrence. About $1,500,000.

★Mass., Norfolk Downs (Boston P. O.)—Pneumatic Scales Co. let contract building 3 story, 150 x 160 ft., brick and concrete addition to plant, to Aberthaw Constr. Co., School St., Boston.

★Mass., Roxbury (Boston P. O.)—Miller Candy Co., 116 North St., Boston, let contract altering 4 story, brick building, on Heath and Parker Sts., here, to C. A. Dodge Co., Erie St., Cambridge. About $100,000.

★R. I., Woonsocket—Woonsocket Wagon Mfg. Co., 15 Worrall St., will build a 2 story, 75 x 200 ft., concrete and steel factory, rock foundation, at 12 Worrall St. About $100,000. Work will be done by day labor.

Industrial Works (Continued)

★**Conn., Hartford**—Hartford Fairmont Co., 41 Arch St., let contract building 1 and 2 story, 93 x 194 ft., brick and concrete addition to plant, concrete flooring and foundation, to Bent-Bartlett Co., 43 Ann St.

★**Conn., Waterville** (Waterbury P. O.)—Amer. Pin Co. let contract building 4 story, 50 x 204 ft., brick and mill construction addition to factory, concrete foundation, to Torrington Bldg. Co., 197 Water St., Torrington. About $200,000.

★**N. Y., Attica**—Merrill-Soule Co., North Franklin and Plum Sts., Syracuse, let contract building 3 story, 45 x 74 ft. factory, here, to Turner Constr. Co., 244 Madison Ave., New York City.

★**N. Y., Brooklyn**—J. Crawford, 753 Flatbush Ave., will build 1 story, 100 x 190 ft., brick and steel garage, rein.-con. flooring, concrete foundation, on Church Ave. and Johnson Pl. About $30,000. Work will be done by day labor.

★**N. Y., Brooklyn**—M. Friedland, c/o P. Caplan, archt., 16 Court St., will build 1 story, 100 x 150 ft., brick and steel garage, rein.-con. flooring, concrete foundation, on 36th St. About $35,000. Work will be done by day labor.

★**N. Y., Brooklyn**—Sarkus Bros., Inc., 287 Thatford Ave., will build 1 story, 70 x 80 ft., brick and steel factory, rein.-con. flooring, concrete foundation, at 534 Junius St. About $25,000. Work will be done by day labor.

★**N. Y., Brooklyn**—J. Sclecowitz, 503 Myrtle Ave., will build 1 story, 100 x 100 ft., brick and steel garage, rein.-con. flooring, concrete foundation, on Fulton St. and Hopkinson Ave. About $30,000. Work will be done by day labor.

N. Y., Brooklyn—State Hospital Comn., Capitol, Albany, received bids building 2 story, 50 x 71 ft., brick and steel addition to laundry, concrete foundation, for Brooklyn State Hospital, here, general contract, from E. D. Broderick, 110 West 40th St., New York City, $40,800 (200 working days), McCann Bldg. Co., Dove St. and Sheridan Ave., Albany, $47,653 (200 working days), Fox, Reynolds Co., Inc., 81 East 125th St., New York City, $59,600 (200 working days); plumbing, from W. B. Armstrong Co., 3 Fulton St., Albany, $6288, C. H. Darmstadt, Inc., 852 West 43rd St., New York City, $6995; equipment, from Amer. Laundry Mchy. Co., 134 West 37th St., New York City, Proposal No. 1, $11,441, Proposal No. 2, $31,283, Henrici Laundry Mchy. Co., 46 Dey St., New York City, Proposal No. 1, $12,145, Troy Laundry Mchy. Co., 133 Centre St., New York City, Proposal No. 1, $14,400, Proposal No. 2, $32,455.

★**N. Y., Delevan** — Merrell-Soule Co., North Franklin and Plum Sts., Syracuse, let contract building 2 story, 60 x 100 ft., factory with 31 x 60 ft. boiler room extension, here, to Turner Constr. Co., 244 Madison Ave., New York City.

★**N. Y., Jamaica**—Agro Constr. Co., Hillside Ave., will build 1 story, 50 x 100 ft., brick and steel factory, rein.-con. flooring, concrete foundation, on Fulton St. About $80,000. Work will be done by day labor.

★**N. Y., Long Island City**—Transport Service Co., 125 Harris Ave., let contract, building 5 story, 75 x 100 ft., brick and steel garage and service station, rein.-con. flooring, concrete foundation, to L. Gold, 44 Court St., Brooklyn. About $200,000.

★**N. Y., North Tonawanda**—Buffalo Sled Co., 107 Woodward Ave., Buffalo, let contract building 2 story, 80 x 360 ft. and 1 story, 80 x 140 ft., rein.-con. factory, here, to W. Steele & Sons Co., 16th and Arch Sts., Phila., Pa.

★**N. Y., Port Jervis**—S. J. Sonnenburg, 220 Straight St., Paterson, N. J., let contract building 1 story, 50 x 200 ft., brick and steel mill, rein.-con. flooring, concrete foundation here, to O. W. Shelly, 1 West 34th St., New York City. About $30,000.

★**N. J., Asbury Park**—Rydon Tire & Rubber Co., c/o E. A. Arend, archt., 105 West 40th St., New York City, let contract building brick and steel factory, rein.-con. flooring, concrete foundation, here, to Amer. Concrete Steel Co., 27 Clinton St., Newark. About $100,000.

★**Ala., Gadsden**—Gulf States Steel Co. will build large steel and concrete addition to wire mill. Work will be done by day labor.

★**O., Akron**—Goodyear Tire & Rubber Co., East Market St., let contract building 3 story, 120 x 340 ft., concrete, steel and brick machine shop, rein.-con. flooring, concrete foundation, to Hunkin-Conkey Constr. Co., Century Bldg., Cleveland. About $250,000.

★**O., Cincinnati**—Berghausen Chemical Co., 307 East 2nd St., let brick contract for 1 and 2 story, 50 x 150 ft. warehouse and office building, on Richmond and Carr Sts., to A. Hitzman, 2614 Spring Grove Ave.; excavation and cement work, to F. B. Geier; carpentry, to O. Schroeder, 15 East Rochelle Corv.; iron work, W. Lang & Sons Co., 2128 Patterson St.

★**O., Cincinnati**—Gibson Art Co., Elm St. between 4th and 5th Sts., let contract constructing 6 story, 146 x 168 ft., brick and terra cotta factory and office building, on 4th and Plum Sts., to Frank Hill Smith Co., Inc., 1035 Reibold Bldg., Dayton.

★**O., Cleveland**—Amer. Borvisk Co., West 98th St. and Walford Ave., let contract constructing 1 story, 58 x 156 ft., steel and brick mechanic's building, brick foundation, to W. Dunbar Co., 8201 Cedar Ave. About $50,000.

★**O., Cleveland**—Briggs Mfg. Co., East 131st St. and Taft Ave., let contract building 2 story, 98 x 176 ft., steel and brick factory, concrete foundation, on Taft Ave., to E. Paulsen, Erie Bldg. About $100,000.

★**O., Cleveland**—Christian-Schwarzenberg & Gaede Co., archts., Euclid Bldg., let contract to Ruple Constr. Co., Avenue Bldg. constructing 2 story, 83 x 95 ft. brick factory, brick foundation, on West 25th St. and Meyer Ave., for Lion Knitting Mills Co., 1051 Power Ave. About $60,000.

★**O., Cleveland**—Harshaw-Fuller-Goodwin Co., Newburg Ave., let contract building 1 story, 85 x 160 ft., steel and brick factory and warehouse, brick foundation, to Hunkin-Conkey Constr. Co., Century Bldg. About $30,000.

★**O., Dayton**—Stanley Mfg. Co., Cannon St., let contract building 3 story, 40 x 80 ft., rein.-con. factory, rein.-con flooring, concrete foundation, to Frank Hill Smith Co., Inc., 1035 Reibold Bldg. About $25,000.

★**O., Newark**—Pharis Tire & Rubber Co. let contract building 3 story, 100 x 120 ft. addition to plant, mill construction, to State Constr. Co., 11 West State St., Columbus. About $100,000.

★**Ind., Indianapolis**—Cole Motor Car Co., 750 East Washington St., let contract building 4 story, 179 x 225 ft. rein.-con. auto assembly building, concrete foundation and flooring, on Market and Davidson Sts., to Bedford Stone & Constr. Co., 810-15 Fletcher Savings & Trust Bldg. About $250,000.

★**Mich., Detroit**—Feigenson Bros., 118 Benton St., let contract building 3 story, 82 x 90 ft., rein.-con. bottling works, rein.-con. flooring, concrete foundation, on Erskine and Beaubien Sts., to Fidler & Gales, 218 Harmon Ave. About $30,000.

★**Mich., Detroit**—Genl. Motors Corp., 435 Woodward Ave., let contract building 1 story garage, also 1 story, 26 x 26 ft., rein.-con. and brick pumping station, rein.-con. flooring, concrete foundation, on Holbrook Ave., to W. E. Wood Co., 1805 Ford Bldg.

★**Mich., Detroit**—Hupp Motor Car Co., Milwaukee and Mt. Elliott Aves., let contract building 4 story, 73 x 396 ft. and 4 story, 73 x 248 ft. factories, rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on Milwaukee and Moran Aves., to E. Winter, Chamber Commerce Bldg.

★**Ill., Chicago**—Channel Chemical Co., 58 East Washington St., let contract building 4 story, 150 x 300 ft. factory, heavy mill construction, concrete foundation, on Western Ave. and West 45th St., to Davidson & Weiss, 53 West Jackson Blvd. About $450,000.

★**Ill., Chicago**—Guyton & Cumfer Mfg. Co., 4451 Fillmore St., let contract building 2 story, 60 x 130 ft. machine shop, mill construction and pressed brick, concrete foundation, at 4430 Fillmore St., to R. L. Brokob, 5448 Flournoy St. About $60,000.

★**Ill., Chicago**—T. R. Bishop, archt., 35 South Dearborn St., let contract to J. C. Stellwagen, 1583 Clybourne Ave., building 3 story, 110 x 160 ft., heavy mill construction factory, concrete foundation, on Lake St. and Kildare Ave., for Playerphone Talking Machine Co., 338 North Kedzie Ave. About $110,000.

★**Ill., Chicago**—W. Teuch & Co. and Brockman & Co., 740 North Franklin St., let contract building 1 story, 125 x 130 ft. printing plant, mill construction, at 2220 Racine Ave., to B. J. Regnell Co., 19 South La Salle St. About $50,000.

★**Wis., Milwaukee**—Kirchhoff & Rose, archts. and engrs., Majestic Bldg., let contract to Raulf Co., Patton Bldg., construcing 2 story, 102 x 255 ft. service station, rein.-con. and brick, rein.-con. flooring, concrete foundation, on North Ave., here, for Cadillac Motor Car Co., 1343 Cass St., Detroit, Mich. About $200,000.

★**Wis., Milwaukee**—W. S. Seaman Co., 480 Virginia St., let contract building 5 story, 100 x 420 ft., steel and brick factory, concrete foundation, on Richards and Lake Sts., to Klug & Smith Co., 40 Mack Blk. About $400,000.

★**Wis., Milwaukee**—Walsh Harness Co., 330 1st Wisconsin Natl. Bank Bldg., let contract building 1 story, 50 x 200 ft., brick and mill construction factory, concrete foundation, on Hubbard and Keefe Sts., to Wilke Bros., 1011 Island Ave. About $60,000.

★**Wis., Racine**—Harvey Spring & Forging Co., 17th and Murray Sts., let general contract building 2 story, 100 x 200 ft., brick and steel factory, concrete foundation, to Wisconsin Bridge & Iron Wks., North Milwaukee; masonry, to Nelson & Co., Robinson Bldg. Total cost, $60,000.

★**Minn., Duluth**—Klearflax Rug Co., 63rd Ave. W. and Grand Ave., let contract constructing 1 story, 66 x 98 ft. and 35 x 50 ft. addition to present 4 story factory and 2 story, 65 x 98 ft. building west of present factory, rein.-con. and brick, rein.-con. flooring, concrete foundation, to McLeod & Smith, Sellwood Bldg. About $65,000.

★**Minn., Grand Rapids**—J. C. Jacobson, engr., Metropolitan Band Bldg., Minneapolis, let contract to Siems, Helmers & Schaffner, 514 Guardian Life Bldg., St. Paul, building electric power plant, including 1000 ft. dam and 1500 h.p. developer and equipment, for Prairie River Power Co. About $150,000; cost plus percentage basis.

Minn., Hastings—State Bd. Control, Capitol, St. Paul, received bids Dec. 1, building 1 story, 45 x 140 ft., rein.-con. and brick power house, including tunnel, at State Hospital for Insane, here, from W. O'Neil & Son, Faribault, $56,458; C. Ash & Son, 202 Maria Ave., St. Paul, $56,672; N. P. Fransen, 628 Endicott Bldg., St. Paul, $68,940.

★**Kan., Topeka**—R. Knowles let contract building 1 story, 50 x 130 ft., brick, rein.-con. and steel garage and sales room, rein.-con. flooring, concrete foundation, to Lundgren & Carlson, 213 Jackson St. About $75,000; cost plus percentage basis.

★**Ore., Portland**—Aladdin Co., 607 Yeon Bldg., purchased plant of Stay-Round Silo Co., Peninsular Mfg. Dist., and will double present capacity and construct 2 story, 125 x 400 ft. frame addition. Work will be done by day labor under supervision of construction department of company. About $50,000.

★**Ont., Braeside**—Gillies Bros., Arnprior, let contract building 2 story, 73 x 190 ft., concrete, steel and brick sawmill and box factory, rein.-con. flooring, concrete foundation, here, to A. F. Byers & Co., 340 University St., Montreal. About $100,000.

★**Ont., Thorold**—Beaver Board Co. let contract building 3 story, 60 x 80 ft., concrete, steel and brick factory, rein.-con. flooring, concrete foundation, to Carswell Constr. Co., 58 Wellington St., Toronto. About $75,000.

★**Ont., Toronto**—Baldwins, Ltd., Ashbridge Bay St., let contract building 1 story, 70 x 800 ft., concrete, steel and brick mill, rein.-con. flooring, concrete foundation, to Canadian Allis-Chalmers, Ltd., 212 King St., W. About $200,000. Noted July 10.

★**Ont., Toronto**—Dunlap Tire & Rubber Goods Co., 224 Booth Ave., let concrete contract for 6 story, rein.-con. factory, to V. Gray Constr. Co., Confederation Life Bldg.; cost plus percentage basis.

★**Ont., Toronto**—Prest-O-Lite Co., Inc., 120 Elm St., let contract building 3 story, concrete and brick factory, rein.-con. flooring, concrete foundation, on Hillcrest Race Course, to Wells & Gray, Confederation Life Bldg. About $400,000; cost plus percentage basis.

★**Ont., Toronto**—Willard Chocolates, Ltd., 443 Wellington St., W., let contract building 5 story, 80 x 150 ft., concrete, steel and brick factory, rein.-con. flooring, concrete foundation, on Dupont St. and Manning Ave., to Wells & Gray, Confederation Life Bldg. About $150,000; cost plus 10 per cent.

Buildings

PROPOSED WORK

Me., **Biddeford**—Bank—**First Natl. Bank** having plans prepared by T. M. James, archt., 3 Park St., Boston, for 1 story, 40 x 100 ft., brick and stone, concrete and tile flooring, concrete foundation. About $50,000.

Mass., Boston—Armory—Commonwealth of Massachusetts having plans prepared by J. E. McLaughlin, archt., 88 Tremont St., for 1 story, brick and steel addition, on Commonwealth Ave. About $50,000.

Mass., Chicopee—Bank—Chicopee Savings Bank, Market Sq., plans to build bank on Center and School Sts. About $100,000. Architect not selected.

Mass., Framingham—Theatre—G. Sumner having plans prepared by Blackall, Clapp & Whittemore, archts., 30 Beacon St., Boston, for 2 story, brick and concrete, on Concord St. About $200,000.

Mass., Hopedale—Housing—Peabody & Stearnes, archts., 53 State St., Boston, soon receive bids building sixteen 2 story brick houses for workmen, stone or concrete foundation, for Draper Corp. About $150,000.

Mass., Springfield—Sales-Cadillac Auto Co. of Boston, 664 Commonwealth Ave., Boston, soon receives bids building 1 or 2 story sales and service station, brick, concrete and steel, concrete flooring and foundation, on Worthington St., here. About $50,000. H. L. Sprague, 310 Main St., archt.

Mass., West Roxbury (Boston P. O.)—High School—Bd. Educ. Boston, having plans prepared by Andrews, Rantoul & Jones, archts., 50 Congress St., Boston, for 3 story, brick and steel, here.

Mass., Worcester—Sales, etc.—H. J. Murch, 731 Main St., plans to build brick and rein.-con. sales and service station, on Park Ave. About $150,000. Cutting, Carlton & Cutting, 44 Front St., archts.

Conn., Ansonia—School—Trade School Comn. plans to build trade school on Clifton and Howard Aves. About $100,000. Architect not selected.

Conn., Bridgeport—School—Bd. Educ. plans to build 3 story, (24 room) grammar school on Grand St. and Hurd Ave. About $442,000.

Conn., Bridgeport—Theatre—F. G. Relf, c/o H. E. Koerner, archt., 164 State St., plans to build 1 story, 66 x 110 ft., brick, concrete and stone, concrete foundation, on Boston Ave. About $50,000.

Conn., Hartford—Office, etc.—Goodyear Tire & Rubber Co., High St., plans to build 4 story, 70 x 160 ft., rein.-con. and steel office and storage plant, rein.-con. flooring, concrete foundation, on Winthrop St. About $300,000. Berenson & Moses, Pilgard Bldg., archts.

Conn., Hartford—Store—Bliss, Hill & Steiger having plans prepared by Buchman & Kahn, archts. and engrs., 56 West 45th St., New York City, for 6 story, brick and steel, brick foundation, here.

Conn., Milford—Dormitory—Rosenbaum School, New Haven Ave., having plans prepared by Brown & Von Beren, archts., 185 Church St., New Haven, for 2 story, 70 x 70 ft., brick and steel, on Gulf St. Noted Sept. 11.

Conn., New Britain—Synagogue—Congregation Beth El, 398 Main St., plans to build synagogue on Summer St. About $100,000. Architect not selected.

Conn., New Haven—Church—St. Josephs Roman Catholic Church, 118 Fountain St., having plans prepared by J. A. Jackson, archt. and engr., 1123 Bway., New York City, for 1 story, brick and terra cotta, brick foundation, on Fountain St. About $150,000. J. J. McGivney, pastor.

Conn., West Haven (New Haven P. O.)—Grade School—School Bd. soon lets contract building 2 story, 45 x 137 ft., steel, brick and stone, some rein.-con. flooring, brick and concrete foundation, on Noble St. and Washington Ave. About $75,000. R. W. Foote, 185 Church St., New Haven, archt.

N. Y., Alexandria Bay—Hotel—F. L. Raymond, mgr. Marsden House, Market St., plans to build 7 story, (200 room) frame addition. Cost between $100,000 and $125,600.

N. Y., Brooklyn (Bay Ridge)—Hospital—W. B. Wills, Inc., archts. and engrs., 1101 Myrtle Ave., preparing plans for 5 story, brick and steel, brick foundation. Owner's name withheld.

N. Y., Brooklyn—Office—W. B. Wills, Inc., archts. and engrs., 1101 Myrtle Ave., preparing plans for 12 story, brick and steel, brick foundation. Owner's name withheld.

N. Y., Gabriels—Hospital—Gabriels Hospital having plans prepared by J. R. Pope, archt. and engr., 527 5th Ave., New York City, for group of hospital buildings, brick, steel and stone, brick foundation. About $3,000,000.

N. Y., Malone—Bank—Peoples Bank, East Main St., plans to build bank on Main and Catharine Sts. Cost between $150,000 and $200,000. B. R. Clark, vice pres.

N. Y., Massena—Club—Citizens Club plans to convert Allen House Hotel into club building. About $150,000. Architect not selected.

N. Y., Millbrook—Sanitarium—H. Ross, 47 West 34th St., New York City, having plans prepared by A. Bodker, archt. and engr., 62 West 45th St., New York City, for group of 1 and 2 story, brick and steel buildings, brick foundation, here. About $300,000.

N. Y., New York—Bank—Harriman Natl. Bank, 527 5th Ave., having plans prepared by J. R. Pope, archt. and engr., 527 5th Ave., for altering brick, steel and stone. About $500,000.

N. Y., New York—Church—J. G. Rogers, archt. and engr., 367 Lexington Ave., soon lets contract building 1 story, 40 x 65 ft., brick and steel, on University Ave., for Featherbed Lane Presbyterian Church, c/o architect. About $50,000.

N. Y., New York—Office—McReynolds Realty Corp., 26 West 31st St., having plans prepared by J. B. Snooks, archt. and engr., 261 Bway., for 12 story, 60 x 100 ft., brick, steel and stone, brick foundation, at 52-54 New St.

N. Y., New York—Office—One Hundred Ninety-Five Bway. Corp. having plans prepared by W. W. Bosworth, archt. and engr., 527 5th Ave., for altering 27 story, brick, steel and stone, at 195 Bway. About $5,000,000.

N. Y., New York—Office—Starrett & Van Vleck, archts. and engrs., 8 West 40th St., receive bids about Jan. 8, altering brick and steel office building, brick foundation, at 48-50 West 47th St., for W. H. Wise & Sons, 56 West 45th St. About $50,000.

N. Y., New York—School—Bd. Educ., 500 Park Ave., having plans prepared by C. B. J. Snyder, archt. and engr., Municipal Bldg., for 5 story, 120 x 195 ft., brick and steel, brick foundation, on St. Anns Ave. and Hagney Pl. About $500,000.

N. Y., New York—Stores, Offices, etc.—M. J. Harrison, archt. and engr., 63 Park Row, preparing plans for 11 story, brick, steel and stone, brick foundation, on 5th Ave., and 30th St. About $250,000. Owners name withheld.

N. Y., New York—Theatre—Consolidated Amusement Enterprises, c/o Arena Theatre, 8th Ave. and 40th St., having plans prepared by S. B. Eisendrath, archt. and engr., 18 East 41st St., for brick, steel and stone, brick foundation, on West 50th St. and 8th Ave. About $130,000.

N. Y., New York—Theatre—Loews Enterprises, 1492 Bway., plans to build 1 story, 102 x 189 ft., brick and steel, brick foundation, on Bway. and 83rd St. T. W. Lamb, 644 8th Ave., archt., and engr.

N. Y., Syracuse — Exchange — Superior-Dreadnaught Film Exch. plans to build 3 story, 60 x 120 ft. About $100,000. Architect and engineer not selected.

N. Y., Utica—Church—Central Methodist Episcopal Church plans to build church. About $200,000. A. E. Legg, pastor. Architect not selected.

N. Y., Utica—Theatre and Store—Wilmer & Vincent, Inc., 1451 Bway., New York City, plan to construct modern theatre and store building on Columbia and Washington Sts., here. Cost between $400,000 and $450,000.

N. Y., Watertown—Business—H. Ellis, 302 Court St., plans to build 4 story, brick and concrete, on lower Court St. Cost between $50,000 and $65,000.

N. J., Boonton—School—Bd. Educ. having plans prepared by W. Potter, archt., 22 East 17th St., New York City, for 2 story, brick, steel and stone, brick foundation, here. About $90,000.

N. J., Jersey City—Bank and Office—A. C. Bosson, archt., 366 5th Ave., New York City, receives bids about Jan. 5, building 10 story, brick, steel and stone, brick foundation, on Exch. Pl., for 1st Natl. Bank, About $1,000,000.

N. J., Jersey City—Schools—Bd. Educ. plans to spend over $5,000,000 during 1920 for building new schools.

N. J., Newark—Hotel—Robert Treat Hotel plans to construct 300 room addition to present building. About $75,000.

N. J., Westfield—School—City plans to build 14 room school on Westfield Ave. About $160,000.

Pa., Wilkes-Barre — Bank — Slavonic Banking Institution, 42 East Market St., plans to build 40 x 60 ft., steel, stone and marble, on East Market St. About $75,000. Architect not selected.

Pa., Wilkes-Barre—Store—L. Cohen and S. Heller plan to build 4 story, 50 x 100 ft., concrete, brick and steel, maple flooring, rock foundation, on South Main and Northampton Sts. About $80,000. Architect not selected.

Md., Baltimore—Community—Hampden-Woodberry Neighborhood Assn. having plans prepared by W. H. Emory, Jr., archt., 827 Munsey Bldg., for 2 story, brick and stucco, concrete foundation, on West Park St. About $50,000. C. T. Hewitt, 852 West 37th St., chn. bldg. com.

Md., Baltimore — Temple — Maryland Grand Lodge of A. F. & A. M., Charles and Saratoga Sts., plans to extend temple in rear to new frontage on St. Paul St. About $500,000.

Md., Crisfield—Hospital—McCready Memorial Hospital having plans prepared by H. G. Jory, archt., 1409 Munsey Bldg., Baltimore, for 1 and 2 story, brick and stone, on Main St. About $100,000.

Md., Highlandtown (Baltimore P. O.)—Temple—Loyal Order of Moose, 410 West Fayette St., plans to build 3 story, 75 x 125 ft., here. About $150,000.

Va., Norfolk—Church—Third Christian Church having plans prepared by W. H. Nicklas, archt., 1900 Euclid Bldg., Cleveland, O., for 1 story, 86 x 127 ft. brick, steel and stone, concrete foundation, on Llewellyn Ave. About $100,000.

Va., Roanoke—Hotel—Viscose Co., Marcus Hook, Pa., plans to build concrete and brick hotel for girls, to include gymnasium, rest rooms, dormitory, etc., here. About $300,000. Ballinger & Perrot, 17th and Arch Sts., Phila., archts. and engrs.

N. C., Asheville—Office—Liberty Realty Co. plans to build 3 story, brick addition. About $200,000. Architect not selected.

N. C., Fayetteville—Memorial—Comrs. Cumberland Co. plan to construct Soldiers' Memorial building here. About $150,000. E. V. Edeus, ch. com.

N. C., Greensboro—Hotel—General Green Hotel Co., Greensboro having plans prepared by H. Barton, archt., building 10 story, 125 x 133 ft. brick. About $500,000.

N. C., Smithfield—Court House—Comrs. Johnston Co. plan to build court house. Cost between $300,000 and $400,000. H. Barton, Greensboro, archt.

Miss., Ruleville—Hotel—P. W. Custer plans to build fireproof hotel on Main St. About $75,000. Architect not selected.

Tenn., Oakville—Hospital—Jones & Furbinger, archts., Porter Bldg., Memphis, receive bids about Jan. 1, constructing hospital, including several buildings of various sizes, power and heating plants, etc., for city of Memphis and Shelby Co. About $500,000.

Ky., Frankfort—Hotel—Capitol Hotel Co. soon lets contract building 6 story, rein.-con. and stone. About $200,000. C. C. Weber, 3rd and Walnut Sts., Cincinnati, O., archt.

O., Bedford—School—Bd. Educ. receives bids about Feb. 1, building 2 story, 80 x 164 ft., concrete, steel and brick, concrete foundation. About $200,000. Hamilton & Watterson, Guardian Bldg., Cleveland, archts.

O., Berley (Columbus P. O.) — High School—Bd. Educ. having plans prepared by O. D. Howard, archt., 8 East Broad St., Columbus, for 2 story, 100 x 150 ft., concrete and brick, here. Bonds for $200,000 voted for project.

O., Cincinnati—Church—Christ Scientist Church plans to build on Clifton and Probasco Sts. About $175,000. A. Robinson, Candler Bldg., Atlanta, Ga., archt.

O., Cincinnati—Office—Gibson Art Co., 4th, 5th and Elm Sts., plans to build 146 x 168 ft., rein.-con., on 4th and Plum Sts. About $500,000. Architect not selected.

O., Cleveland—Bank and Office—Citizens Savings & Trust Co. and Union Commerce Bank, Citizens Bldg., receive bids about Feb. 1, building 20 story, 145 x 258 x385 ft., brick, concrete, steel, stone and terra cotta, rein.-con. flooring, concrete foundation, on East 9th St. and Euclid Ave. About $8,000,000. Graham, Anderson, Probst & White, Ry. Exch. Bldg., Chicago, archts.

O., Cleveland—Commercial—A. B. Friedl, 3328 Vega Ave., plans to build 3 story, steel and brick, brick foundation, on East 93rd St. and Kinsman Rd. About $100,000. W. S. Lougee, Marshall Bldg., archt.

Buildings (Continued)

O., Cleveland—Loft—A. Sogg, archt., 319 Hippodrome Bldg., receives bids about Feb. 15, remodeling 5 story, brick and timber, on West 6th St. and St. Clair Ave. About $50,000. Owner's name withheld.

O., Cleveland—Mercantile and Office—A. E. Brown and E. J. Sapp, c/o Carey Roofing Co., to build 4 story, 66 x 190 ft. concrete, steel and brick, rein.-con. flooring, concrete foundation, at 1717 Prospect Ave. About $250,000. Architect and engineer not selected.

O., Cleveland—Office and Temple—Euclid-Malta Co., c/o Colcher & Smith, archts., Lennox Bldg., having plans prepared for 8 story, 64 x 114 ft., concrete, steel, brick and terra cotta, rein.-con. flooring, concrete foundation, on Euclid Ave. and East 105th St. About $200,000.

O., Columbus—Office—A. Crotti, 151 East Broad St., having preliminary sketches prepared for 6 story, 62 x 93 ft., on Town St. and Grant Ave.

O., Dayton—Hotel—Miami Hotel Co., 403 West 1st St., plans to build 6 story, 50 x 160 ft., rein.-con. and brick addition, rein.-con. flooring, concrete foundation, on 2nd and Ludlow Sts. About $100,000. F. H. Pike, pres. Architect not selected.

O., Lakewood (Cleveland P. O.)—Theatre and commercial—Detroit-Lake Ave. Co., 1212 Donald Ave., plans to build 6 story, 190 x 232 ft., concrete, steel and brick, rein.-con. flooring, concrete foundation, on Detroit and Lake Aves. About $600,000. G. W. Armstrong, pres. Architect's name withheld.

O., Marion—School—Bd. Educ. having plans prepared by O. D. Howard, archt., 8 East Broad St., Columbus, for 3 story, 80 x 90 ft., concrete and brick. About $110,000.

O., Put in Bay—Church—St. Mary's Catholic Church, c/o E. J. Scheider, archt., Cuyahoga Bldg., Cleveland, receives bids about May 1, building 1 story, 30 x 84 ft., brick, steel and stone, here About $50,000.

Ind., Ft. Wayne—Sales—Kopf & Woolling, archts., Pythian Bldg., Indianapolis, receive bids about Jan. 10, building 3 story, 80 x 150 ft., rein.-con., brick and terra cotta sales room, concrete foundation, on Washington and Garfield Sts., for E. W. Steinhart Co., St. Wayne and Indianapolis Sts. About $125,000.

Ind., Greensburg—Hospital—Decatur Co. Memorial Hospital Bd. having plans prepared by D. A. Bohlen & Son, archts., Majestic Bldg., Indianapolis, for hospital, here. About $75,000.

Ind., Portland—School—Bd. Educ. having plans prepared by W. Scholer, archt., State Life Bldg., Indianapolis, for 2 story, 62 x 83 ft., brick, steel and stone. About $75,000.

Ind., Shelbyville—Bank—Kopf & Woolling, archts., Pythian Bldg., Indianapolis, receive bids about Jan. 10, building 1 story, 65 x 190 ft., rein.-con., stone and brick, on Pub. Sq., for 1st Natl. Bank, here. About $100,000

Mich., Battle Creek—Dormitory—Kellog Toasted Corn Flake Co. plans to build 3 story, 100 x 218 ft., rein.-con., brick and steel, concrete foundation, to include 40 x 75 ft. concrete swimming pool. About $100,000.

Mich., Detroit—Commercial—A., L. and J. Kahn, Marquette Bldg., preparing plans for 4 story, 140 x 185 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on Cass Ave. and Peterboro St. About $400,000. Private plans.

Mich., Detroit—Market—Dept. Pub. Welfare, Municipal Courts Bldg., having plans prepared by J. Scott & Co., archts., Dime Bank Bldg., for 1 and 2 story, steel, rein.-con. flooring, concrete foundation, also scale house and incinerator, on Russell and Market Sts. About $120,000.

Mich., Detroit — Theatre — Associated Amusements Co., c/o C. W. Brandt, archt., Kresge Bldg., having plans prepared for 2 story, 120 x 135 ft., rein.-con., brick, steel and stone, rein.-con. flooring, concrete foundation, on Hamilton Blvd. About $250,000.

Mich., Detroit—Theatre—E. Baron, Hastings St., having plans prepared by I. M. Lewis, archt., Congress Bldg., for 2 story, rein.-con. brick and steel, rein.-con. flooring, concrete foundation, on Livingston and Hastings Sts. About $60,000.

Mich., Eaton Rapids—High School—Bd. Educ. having preliminary plans prepared by S. D. Butterworth, archt., 432 Tussing Blk., Lansing, for 2 story, rein.-con. brick, steel and wood, concrete foundation. About $200,000.

Mich., Flint—Home—St. Michael's Parish, c/o R. P. Dunnigan, plans to build 3 story, 40 x 82 ft., brick, steel and stone, tile flooring, brick foundation. About $50,000. VanLeyen, Schilling & Keough, Union Trust Bldg., Detroit, engrs. and archts.

Mich., Grand Rapids—Sanitarium—W. M. Burleson, 148 Fulton St. East, having plans prepared by Osgood & Osgood, archts., Herald Bldg., for 11 story, 105 x 146 ft., rein.-con. brick and steel, rein.-con. flooring, concrete foundation, on Island and and Michell Sts., to Murch Bros., Ry Exch. Jefferson Ave.

Mich., Ironwood—Municipal—City election in January, to vote on $400,000 bonds to construct municipal building.

Mich., Northville—Hospital—Detroit Bd. Health, 233 Antoine St., Detroit, plans to build Municipal Tuberculosis Sanitarium, here, to include 3 story, 41 x 144 ft. administration building, 3 story, 50 x 165 ft. infirmary with two 38 x 182 ft. wings, 2 story, 93 x 127 ft. service building and 2 story, 40 x 120 ft. laundry, all brick and rein.-con., rein.-con. flooring, concrete foundation; 2 story, 38 x 183 ft. ambulant building, with 38 x 84 ft. wing, brick and rein.-con., rein.-con. and wood flooring, concrete foundation; 2 story, 38 x 128 ft. nurses home with 30 x 32 ft. wing, 2 story, 28 x 36 ft. laboratory and 2 story, 34 x 143 ft. buildings for employees with 33 x 21 ft. wings, brick and timber, wood flooring, concrete foundation and 1 story, 48 x 87 ft. power plant, brick and steel. About $1,000,000. Stratton & Snyder, 1103 Union Trust Bldg., Detroit, archts.

Wis., Grand Rapids—Bank—First Natl. Bank having plans prepared by Childs-Smith, archts., Grand Ave., Chicago, Ill., for 2 story, 60 x 125 ft. brick, rein.-con. and steel, brick foundation, on Main St. About $60,000.

Wis., Lancaster—Community—City plans to construct community building, to contain rest rooms, offices, council rooms, gathering room, with kitchen and theatre with 1000 seating capacity. About $100,000. C. Calvery, chn.

Wis., Manitowoc — Theatre — George Bros., 913 South 8th St., having plans prepared by W. J. Raueber, archt., Manitowoc, for 3 story, 100 x 125 ft. brick, rein.-con. and steel, brick foundation. About $150,000.

Wis., Manitowoc—Training School—City plans to convert court house, on 8th St., into training school, also build large brick addition to same. About $60,000. A. Schuetze, cl. Architect not selected.

Wis., Merrill—High Schools—Bd. Educ. having plans prepared by Parkinson & Bockendorff, archts. and engrs., Linker Bldg., La Crosse, for 2 story central school and 3 story, 65 x 150 ft. high school, brick and concrete, rein.-con. flooring, concrete foundation. About $200,000.

Wis., Milwaukee—Gymnasium and Stadium—Marquette University, 1115 Grand Ave., plans to build 2 story, 139 x 147 ft., brick and concrete gymnasium, rein.-con. flooring, and rein.-con. stadium, on 15th and Clybourn Sts. About $200,000. E. Brielmeier & Sons Co., University Bldg., archts. and engrs.

Wis., Milwaukee — Nurses' Home—Mt. Sinai Hospital, 246 12th St., plans to build 3 story, rein.-con and brick, rein.-con. flooring, concrete foundation. About $50,000. E. Brielmeier & Sons Co., University Bldg., archts. and engrs.

Wis., Milwaukee — School—Bd. Educ. plans to build 2nd unit of continuation school, 6 story, rein.con. and brick, rein.-con. flooring, concrete foundation, on 7th and Prairie Sts. About $250,000. Van Ryn & De Gelleke, Caswell Blk., archts. and engrs.

Wis., Oshkosh — Hospital — Mercy Hospital, 185 Hazel St., plans to build 4 story, rein.-con. and brick addition to hospital, rein.-con. flooring, concrete foundation. About $300,000. E. Brielmeier & Sons Co., University Bldg., Milwaukee, archts. and engrs.

Wis., Owen—Hospital—Clark Co. plans to build 3 story, brick and rein.-con. hospital for insane, brick foundation. Bonds for $200,000 voted for project. Architect not selected.

Wis., Racine—High Schools—Bd. Educ. will receive competitive sketches about Feb. 1, for junior high school, cost $200,000, also high school, on 12th St., $500,000, both brick, rein.-con. flooring. J. J. Moritz, secy. Architect not selected.

Ia., Atlantic—Church—First Methodist Episcopal Church having plans prepared by W. C. Jones, archt., 907 North La Salle St., Chicago, Ill., for 2 story, 80 x 100 ft. brick, concrete and steel, concrete foundation. About $75,000.

Ia., Dayton—School—Bd. Educ. Consolidated Dist., receives bids about Jan. 15, building 2 story, 55 x 75 ft. brick, rein.-con. and steel, rein.-con. flooring, brick foundation. About $75,000. W. E. Hull & Co., 210 Masonic Temple, Des Moines, archts.

Ia., Randall—School—Bd. Educ. voted $80,000 bonds to build 2 story school. Architect and engineer not selected.

Minn., Hibbing—School—C. E. Everett, chn. Bd. Educ., receives bids about Jan 15, building 2 story, 385 x 400 ft., rein.-con. and brick, rein.-con. flooring, in Central Div. About $330,250. W. T. Bray, Torrey Bldg., Duluth, archt. and engr.

Minn., Robbinsdale—School—Bd. Educ. plans to build 2 story, fireproof. About $125,000. H. H. Livingston, Robbinsdale, archt.

Minn., St. Paul—Home—Bd. Trustees of Jewish Home for Aged having plans prepared by C. H. Johnson, archt., 715 Capital Bank Bldg., for 2 story, at 75 Wilkin St. About $100,000. J. Levy, c/o St. Paul House Furnishing Co., 41 East 7th St., pres.

Kan., Wellington—Auditorium—City receives bids about Jan. 2, building 2 story, 90 x 120 ft., brick, rein.-con. and steel, rein.-con. flooring, concrete foundation. About $125,000. C. Boller & Bro., Kansas City, Mo., archts.

Kan., Wichita—Business—Western Lithographic Co., 125 North Emporia Ave., having plans prepared by L. Schmidt, archt., 121 North Market St., for 3 story, 140 x 150 ft. brick, rein.-con. and steel, rein.-con. flooring, concrete foundation, on 1st and Lawrence Sts. About $150,000.

Neb., Fremont—Bank—Nebraska State Bldg. & Loan Assn. and Fremont State Bank plan to remodel bank, steel, concrete and brick, rein.-con. flooring. About $100,000. Architect not selected.

Wyo., Sheridan—School—School Dist. No. 7 soon lets contract building 3 story grade school. About $100,000. Randal & Jordon, Sheridan, archts.

Mont., Butte—Lodge—Odd Fellows Fidelity Lodge No. 8 plans to build 3 story, 58 x 110 ft., on Main and Galena Sts. About $250,000. Architect not selected.

Mo., St. Louis—Hotel—Letmar Club Assn., 3648 West Pine Blvd., plans to build brick hotel, rock foundation, at 3648 West Pine Blvd. About $50,000. Architect not selected.

Okla., Cushing—Hospital—City plans to build hospital. About $50,000. Architect and engineer not selected.

Okla., Henryetta—Depot—Missouri, Oklahoma & Gulf R.R. plans to build passenger and freight depot, here. About $50,000. C. N. Van Natta, Muskogee, ch. engr. Architect and engineer not selected.

Okla., Okmulgee—Schools—Bd. Educ. voted $238,000 bonds to build schools. Architect and engineer not selected. R. W. Adkinson, clk.

Colo. Denver—City plans election soon to vote on $85,000 bonds to build new school in Berthoud Dist.

Colo., Mineral Hot Springs—Bath House and Pavilion-Mineral Hot Springs Resort Co. plans to build 1 story, 40 x 100 ft. rein.-con. bath house, tile flooring, rein.-con. foundation, 1 story, 80 x 15 ft. frame dancing pavilion, wooden flooring, concrete foundation and 1 story, 55 x 150 ft. rein.-con. garage. Total cost $100,000. W. N. Bowman, Central Bank Bldg., Denver, archt.

Ariz., Fort Defiance—Administration and Dormitories—Home Missionary Bd. of Presbyterian Church of United States having plans prepared by H. M. Patterson, archt., 325 O. T. Johnson Bld., Los Angeles, for 2 story, sandstone administration building, 2 dormitories (each to accommodate 50 pupils) and 4 cottages. Cost to exceed $50,000.

Ariz., Yuma—School—Trustees School Dist. No. 1 soon receive bids building brick, concrete foundation. Former bids rejected. F. R. Ingle, Bd. Trade Bldg., clk. N. F. Marsh, 211 Bway. Central Bldg., Los Angeles and V. O. Wallingford, Goodrick Bldg., Phoenix, archts. Noted Aug. 21.

Wash., Seattle—Hospital—J. T. Mason, et al, Alaska Bldg., plan to build 6 story, 44 x 100 ft., rein.-con., brick and tile, on Terry and Spring Sts. About $130,000. Bebb & Gould, Securities Bldg., archts.

Wash., Seattle—Hotel—O. Dickinson, archt., Seaboard Bldg., preparing plans for 4 story, 50 x 120 ft., brick, on Westlake and Pine Sts. About $80,000. Owner's name withheld.

Buildings (Continued)

Wash., Seattle—Office—Medical Bldg. Co., Cobb Bldg., having plans prepared by Bebb & Gould, archts., Securities Bldg., for 10 story, 54 x 120 ft., on Madison and Minor Aves. About $400,000.

Wash., Seattle—Sales—Cascade Motor Sales Co., 8th and Pine Sts., plans to build 2 story, 100 x 100 ft., concrete and brick, on 12th and Madison Sts. About $75,000. V. W. Voorhees, Eitel Bldg., archt.

Wash., Yakima—Schools—City plans to build 1 or 2 story, brick or concrete high school, also addition to McKinley School. Bonds for $225,000 voted for project. Architect not selected.

Ore., Gearhart — Hotel — Citizens of Seattle, Wash., and Portland and Astoria having preliminary plans prepared for 2 or 3 story, modern hotel, on 450 x 650 ft. site adjoining golf links, here. About $200,000. Architect not selected. Address J. L. Meier, c/o Meier & Frank, 5th and Morrison Sts., Portland.

Cal., Elk Grove—High School—School Trustees having plans prepared by G. C. Sellon, archt., 1005 8th St., Sacramento, for high school, here. About $175,000.

Cal., Piedmont—(Oakland P. O.)—School Trustees Piedmont High School Dist. plan election to vote on $250,000 bonds to build school.

Cal., San Francisco — Sales — Pioneer Motor Co., 307 Golden Gate Ave., plans to build 5 story, 120 x 220 ft., rein.-con., on Van Ness Ave. and McAllister St. G. Peak, mgr. Architect not selected.

Cal., San Francisco—School—Bd. Educ. having plans prepared for Grant School, on Baker St. and Bway. About $200,000.

Cal., San Leandro—City Hall—City plans election to vote on $50,000 bonds to build city hall.

Ont., Belleville—School—Bd. Educ. plans to build 2 story school. About $125,000. A. McGie, chn. Architect not selected.

Ont., Brantford—Hospital—City election in January to vote on $87,000 by-law to build new isolation hospital and $78,000 to remodel present one. T. H. Jones, City Hall, engr.

Ont., Chatham—Hospital—Pub. Gen. Hospital Bd., 106 Emma St., having plans prepared by Watt & Blackwell, archts., 64 Bank of Toronto Chambers, London, for 3 story, concrete, steel and brick, rein.-con. flooring, concrete foundation, here. About $140,000.

Ont., Hamilton—Store—Arcade, Ltd., 43 James St., N., plans to build 6 story, 80 x 120 ft., concrete, steel and brick, rein.-con. flooring, concrete foundation. About $300,000. McPhie & Kelly, 701 Bank of Hamilton Bldg., archts.

Ont., London—Exchange—Bell Telephone Co., 118 Notre Dame St., W., Montreal, plans to build 1 story, 60 x 80 ft., concrete and steel addition, concrete flooring, here. About $100,000. W. J. Carmichael, 29 Hospital St., Montreal, archt.

Ont., London—Seminary—Diocese of London having plans prepared by McGinnis & Walsh, archts., Boston, for 3 story, 85 x 400 ft., stone. Tenders will be called about end of March. About $500,000. Address A. Fallon, 90 Maple St., Bishop.

Ont., Mallorytown—School—Consolidated School Bd. having plans prepared by B. Dillon, archt., King St., Brockville, for 2 story, concrete, steel and brick, concrete foundation. About $160,000.

Ont., Oshawa — Church — Methodist Church Bd. plans to build 1 story, steel and brick, concrete foundation, on Simcoe St. About $75,000. Architect not selected.

Ont., Ottawa—City Hall—City plans to build 3 story, 100 x 200 ft., city hall, fire station and memorial hall, concrete, steel, brick and stone, rein.-con. flooring, concrete foundation. About $2,500,000. W. E. Noffke, Central Chambers Bldg., archt.

Ont., St. Thomas—School—Bd. Educ. plans to build 2 story, concrete, brick and steel, rein.-con. flooring, concrete foundation, on Elm St. and Wilson Ave. About $75,000. J. Darrach, St. Thomas, archt.

Ont., Sudbury—School—High School Bd. plans to build 3 story, 20 roomed, concrete, steel and brick, concrete foundation. About $200,000. Architect not selected.

Ont., Toronto—Lavatories—Bd. Control soon receiving bids building stucco and terra cotta, tile flooring. About $65,000. W. H. Pearse, city archt.

Ont., Trenton—Exchange—Bell Telephone Co., 118 Notre Dame St., W., Montreal, plans to build 3 story, 40 x 60 ft., concrete, steel and brick, rein.-con. flooring, concrete foundation. About $60,000. W. J. Carmichael, 29 Hospital St., Montreal, archt.

TUNNEL—PITTSBURGH, PA.

Bids were received by Commissioners of Allegheny County, Dec. 2nd, for constructing Liberty Tunnel through South Hills, from (A) Booth & Flinn, Ltd., 1942 Forbes St., (awarded contract); (B) John F. Casey Co., Union Arcade; (C) Mellon-Stuart Co., Oliver Bldg., Rinehart-Dennis Co., Roanoke, Va.; (D) James H. McQuade & Sons Co., Bakewell Bldg., $5,658,386; (E) Smith, Hauser & McIsaacs, 18 East 41st St., New York City, $5,146,008. The unit bids of the lowest 3 bidders were as follows:

	A	B	C
5,690 lin.ft. of completed tunnel (lump sum)	$722 04	$702 00	$736 00
160,000 sq.ft. of waterproofing over tunnel arches	25	66	35
116,000 cu.yd. of excavation in two approaches (North Side)	1 80	2 66	2 00
11,000 cu.yd. of excavation in two approaches (South Side)	3 00	2 52	2 00
4,000 cu.yd. concrete masonry in portals and retaining walls (North Side)	10 00	14 93	14 80
2,800 cu.yd. concrete masonry in portals and retaining walls (South Side)	14 00	14 93	14 80
2,000 cu.yd. facing walls in two approaches (North Side)	10 00	14 93	14 80
500 cu.yd. facing walls in two approaches (South Side)	14 00	17 33	14 80
200,000 lb. of reinforcing steel bars in approaches	02	05	08
15,000 lb. of reinforcing steel, fabric, mesh or expanded metal	01	11	10
10,000 lb. of structural steel shapes in concrete	01	10	08
400 lin.ft. of 2½ inch iron pipe railing in two approaches	2 00	3 00	1 00
6,600 sq.yd. of brick paving in two approaches	4 00	4 00	5 75
1,575 sq.yd. of stone block paving in approaches	4 00	6 50	8 00
1,510 lin.ft. of concrete curb in approaches	1 35	2 05	1 40
12,340 sq.ft. of concrete sidewalks in approaches	25	36	45
750 lin.ft. of street railway tracks	9 00	9 70	8 50
1,000 lin.ft. of terra cotta drain pipe in approaches	25	36	60
1,000 lin.ft. of porous drain tile in approaches	15	30	26
1,020 lin.ft. of 15-in. terra cotta pipe sewers in approaches	5 00	1 35	83
300 lin.ft. of terra cotta pipe sewers, 9-in. and less	1 00	75	70
6 sewer manholes in approaches	90 00	180 00	88 00
6 sewer inlets in approaches	50 00	180 00	37 50
400 lin.ft. of 6-in. cast iron water pipe in approaches	2 00	1 80	2 13
3 6-in. hub gate valves with large iron boxes	50 00	20 00	26 00
560 cu.yd. of concrete in saw mill run bridge 1-2-4 mix	30 00	16 00	15 60
970 cu.yd. of concrete in saw mill run bridge 1-2½-5 mix	22 00	12 00	15 00
8000 sq.ft. of waterproofing over arch in saw mill run bridge	20	60	35
750 cu.yd. of gravel fill over arch in saw mill run bridge	3 50	3 00	3 00
Extended totals	$4,593,259	$4,671,161	$4,746,207

BIDS DESIRED

Conn., New Haven—Loft, Offices, etc.—Brown & Von Beren, archts., Chamber Commerce Bldg., receiving bids building 8 story, 80 x 80 ft., brick and stone, concrete foundation, for J. Kilfeather, Meadow St. About $125,000.

W. Va., Charleston—Office—Until Jan. 15, by C. H. Higgins, archt., 19 West 44th St., New York City, building 7 story, 100 x 150 ft., brick, stone and steel, on Virginia and McFarland Sts., for Abney Barnes & Co., 812-18 Virginia St.

Tenn., Memphis—School—Until Jan. 1, by Mahan & Broadwell, archts., Amer. Bank Bldg., constructing 2 story, brick and hollow tile, for city. About $55,000.

O., Middletown—Business—Until Jan. 5, by C. E. Oeden, archt., Knights of Pythias Bldg., constructing 2 story, 60 x 110 ft., brick, steel and stone, tile and concrete flooring, brick foundation, on 3rd and Clinton Sts., for Lewis Bros., Main St. About $50,000.

O., Upper Sandusky—School—Until Jan. 5, by Bd. Educ., building 2 story, 65 x 70 ft. centralized school in Salem Twp., Wyandotte Co. About $85,000. O. Gotlieb, R. F. D., clk. O. D. Howard, 8 East Broad St., Columbus, archt.

Ill., Kewanee—Church—R. G. Pierce, archt., 10 South La Salle St., Chicago, receiving bids remodeling 2 story, 70 x 100 ft., brick, for Kewanee Methodist Episcopal Church. About $75,000. N. Ronneberg, 10 South La Salle St., Chicago, engr.

Wis., Westby—Church—Until Jan 10, by C. Volkman, archt., 106½ Grand Ave., Eau Claire, building 60 x 70 ft., brick and tile, brick and concrete foundation, for Our Saviour's Evangelical Lutheran Church. About $50,000. S. Rondestvedt, pastor.

Ia., Laurel—School—Until Jan. 8 by Bd. Educ., Consolidated Dist., building 2 story, 80 x 120 ft. brick, rein.-con. and steel. About $90,000. H. E. Reimer, Marshalltown, archt.

Minn., Duluth—Bank and Office—Until Feb. 1, by F. G. Beamsly, cashier Duluth State Bank, West Superior St., building 2 story, 50 x 140 ft., brick and stone, rein.-con. foundation, on Superior St. and 20th Ave., W. About $75,000. Holstead & Sullivan, Palladio Bldg., engrs. and archts.

Minn., East Grand Forks—School—Until Jan. 15, by J. A. Noonan, secy. Independent School Dist. No. 3, Polk Co., building 3 story, 130 x 170 ft., rein.-con., brick and stone, rein.-con. flooring, concrete foundation, on Kittson Ave. and 6th St. B. D. Beck, Grand Forks, N. D., engr. and archt.

Mo., Joplin—Office and Salesroom—Joplin Supply Co., 3rd and Walls Sts., receiving bids building 3 story, 75 x 120 ft., rein.-con., steel and brick, rein.-con. flooring, concrete foundation. About $125,000. Smith, Rea & Lovitt, Finance Bldg., Kansas City, archts.

Okla., Oklahoma—Sales—Deignan Motor Co. receiving bids constructing 2 story, 100 x 190 ft. brick, rein.-con. and steel, sales and service building, rein.-con. flooring, concrete foundation. About $100,000. F. C. Gunn, 1606 West 39th St., Kansas City, Mo., archt.

Cal., Madera—School—Until Jan. 5, by Trustees Union High School Dist., constructing 2 story, brick and concrete auditorium and class room building. About $100,000. Swartz & Ryland, Rowell Bldg., Fresno, archts.

Que., Three Rivers—Hippodrome—Until Jan. 20, by J. B. Richer, building 100 x 200 ft., rein.-con., rein.-con. flooring, rock foundation, on Forges, Royal and St. George Sts. About $250,000. J. Irudel, Vlauville St., Montreal, engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Amherst**—Memorial—Massachusetts Agricultural College let contract building 2 story, 60 x 120 ft., brick and stone, rein.-con. flooring, concrete foundation, on campus, to E. F. Carlson Co., 393 Main St., Springfield. About $150,000.

★**Mass., Boston**—Office—F. D. Holdsworth & Co., 30 State St., let contract building 7 story, rein.-con. and steel, on Doane St., to Evatt Constr. Co., Devonshire St.

★**Mass., Brockton**—Business—F. S. Howard, Inc., Main St., let contract building 3 story, 50 x 135 ft., brick and frame construction, concrete foundation, on White Ave., to W. Hanson, 567 Pleasant St. About $50,000.

★**Mass., Brookline** (Boston P. O.)—Sales, etc.—L. Shapiro, 27 School St., will build 2 story, 85 x 270 ft., concrete and stone sales and service station, concrete flooring and foundation, on Commonwealth Ave. About $250,000. Work will be done by day labor.

★**Mass., Southbridge**—Church—St. Hedwigs Polish Church let contract building 1 story, 46 x 93 ft. with 50 ft. steeple, brick and timber, concrete foundation, on Everett St., to J. G. Ray & Sons Co., 21 Silver St., Springfield. About $50,000.

★**Mass., Springfield**—Business—Forbes & Wallace, 392 Main St., let contract building 8 story, 80 x 100 ft., brick, concrete and steel addition, rein.-con. flooring, concrete foundation, on Main and Vernon Sts., to E. J. Pinney, 374 Main St.

★**R. I., Arctic**—Theatre—A. A. Spitz, C. Misch Bldg., Providence, let contract building 2 story, brick, concrete and steel, concrete flooring and foundation, to C. I. Bigney Constr. Co., 898 Westminster St., Providence. About $100,000.

Buildings (Continued)

★**Conn., Bridgeport**—School—Bd. Educ. let general contract building 2½ story, 118 x 130 ft., brick and steel addition to McKinley School, concrete foundation, on Kelsey St., to M. Noonan, Tracey St., $153,753; plumbing and heating, to H. D. Fitzgerald, Bassick Ave., $22,000.

★**N. Y., Brooklyn** (Bensonhurst) — Bank—West End Bank, c/o Holmes & Winslow, archts. and engrs., 110 West 40th St., New York City, let contract building 1 story, 30 x 90 ft., brick, steel and stone, brick foundation, on 20th Ave. and 86th St., to F. G. Fearon, 280 Madison Ave., New York City. About $50,000.

★**N. Y., Brooklyn** (Bensonhurst)—Bank—Studebaker Corp. of Amer., 1751 Bway., New York City, let contract building 5 story, 60 x 100 ft., steel, at 1469-1471 Bedford Ave., to G. A. Fuller Co., 175 5th Ave., New York City.

★**N. Y., Brooklyn**—Theatre—J. Hilder, 271 75th St., will build 2 story, 157 x 175 ft., brick and steel, brick foundation, on Bway. and Chauncey St. About $175,000. Work will be done by day labor under supervision of Carlson & Wiseman, archts. and engrs., 226 Henry St.

★**N. Y., Brooklyn** — Theatre — Kingway Realty Co., c/o Carlson & Wiseman, archts. and engrs., 226 Henry St., will build brick and steel brick foundation, on Kings Highway and East 12th St. About $300,000. Work will be done by day labor, under supervision of archts.

★**N. Y., New York**—Hotel—Warren & Wetmore, archts. and engrs., 16 East 47th St., let contract to Thompson-Starrett, 49 Wall St., building 16 story, brick, steel and stone, brick foundation, on Park Ave. between 49th and 50th Sts. Owners name withheld.

★**N. Y., New York**—Loft—Hamilton Press, Inc., 40 Stone St., let contract altering 6 story, 80 x 100 ft., brick and steel, on Trinity Pl. and Thames St., to F. J. McWalters, 225 5th Ave. About $75,000.

★**N. Y., New York**—Office—International Tailoring Co., 97 East Houston St., will build 12 story, 116 x 142 ft., brick, steel and stone, brick foundation, on 4th Ave. and 12th St. About $750,000. Work will be done by day labor under supervision of Starrett & Van Vleck, archts., 8 West 40th St. Noted Aug. 14.

★**N. Y., New York**—Office—Lawyers Title & Trust Co., 160 Bway., let contract building 11 story, 50 x 106 ft., brick and steel, brick foundation, to G. B. Beaumont, 286 5th Ave.

N. Y., New York—Office—F. T. Ley, 19 West 44th St., will build 20 story, brick, steel and stone, brick foundation, on 42nd St. and Madison Ave. About $2,000,000. Work will be done by day labor.

★**N. Y., New York**—Offices, Stores, Theatre—G. Backer, 20 East 32nd St., will build 30 story, 100 x 162 ft., brick, steel, and stone, brick foundation, on 57th St. and 5th Ave. About $6,000,000. Work will be done by day labor.

★**N. Y., New York**—Theatre—W. Fox Amusement Co., 126 West 46th St., will build brick and steel, brick foundation, on Tremont and Washington Aves., (3500 seating capacity). About $400,000. Work will be done by day labor under supervision of Carlson & Wiseman, archts. and engrs., 226 Henry St., Brooklyn.

N. Y., Wards Island—Hospital—State Hospital Comn., Capitol, Albany, received bids Dec. 17, building 2 story, 58 x 98 ft., brick and rein.-con., concrete foundation, for Manhattan State Hospital, here, general contract, from M. Kantrowitz, 20½ Market St., Albany, $137,800 (180 working days); heating, from Leslie & Tracy, Inc., 5 Columbus Circle, New York City, $6300, Gillis & Geoghegan, 537 West Bway., New York City, $7180, Ryan Plumbing & Heating Co., Inc., Light and Power Bldg., Watertown, $7700; plumbing, from Ryan Plumbing & Heating Co., Inc., Light and Power Bldg., Watertown, $10,600, C. H. Darmstadt, Inc., 352 West 43rd St., New York City, $10,795.

★**N. Y., Woodhaven** (Jamaica P. O.)—Theatre—J. Hartman, 857 111th St., Richmond Hill, will build 1 story, 80 x 130 ft., brick and steel, brick foundation, on Boyd Ave., here. About $80,000. Work will be done by day labor under supervision of Carlson & Wiseman, archts. and engrs., 226 Henry St., Brooklyn.

★**Va., Richmond**—Hospital—Stuart Circle Hospital, Lumbardy and Franklin Sts., let contract building 6 story, 40 x 60 ft., rein.-con. and brick addition, on West Franklin St., to J. C. Beazley, 209 Real Estate Exch. Bldg. About $50,000.

★**Ga., Macon**—School—Bd. Educ. let contract building 2 story, 100 x 200 ft., brick and terra cotta, to W. D. Griffin, Macon. About $80,000.

O., Cincinnati—Office—See "Industrial Works."

★**O. Cleveland**—Hotel—J. W. Wilson, 450 Leader-News Bldg., let contract building 4 story, 76 x 270 ft., concrete, brick and steel, rein.-con. flooring, concrete foundation, on East 96th St. and Euclid Ave., to Paul Bros., 528 Citizens Bldg. About $400,000.

Mich., Detroit—Engine House—Fire Comn., Larned St., received bids for masonry work in connection with 2 story, 40 x 80 ft., rein.-con., brick and stone, rein.-con. and wood flooring, concrete foundation, on 12th and LaBelle Sts., from M. Bartholomael Son & Co., 466 Warren Ave., $49,-200; Corrick Bros., Owen Bldg., $55,730; Lennane Bros., Union Trust Bldg., $59,020; carpentry work, from C. Keller Co., 210 Moran St., $21,920; Yatzek & Wunderlick, 400 Penobscot Bldg., $25,758; heating, plumbing and ventilating, from O'Connor Bros., 34 Roland Bldg., $9209; Irvine & Meier, 2289 Woodward Ave., $10,270; W. J. Rewoldt, Owen Bldg., $10,553.

★**Mich., Detroit**—School—Bd. Educ., 50 Bway., let masonry contract building 2 story, 150 x 211 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on Maplewood and Spokane Sts., to F. H. Goddard, 516 Frankin St., $187,373; carpentry, to Harcus & Co., 774 Russell St., $47,257; heating, ventilating and plumbing to Irvine & Meier, 2289 Woodward Ave., $81,682; electrical work, to J. Miller & Co., Penobscot Bldg., $12,545.

★**Mich., Detroit**—Theatre—H. C. Keywell, 501 Old Whitney Bldg., let contract building 2 story, 38 x 115 x 190 ft., brick, steel and terra cotta, on Grand River Ave., to D. Fidler, 242 Melbourne Ave. About $90,000.

★**Mich., Detroit**—Theatre—LaSalle Gardens Theatre Co., c/o C. W. Brandt, archt., 1114 Kresge Bldg., let contract building 2 story, 100 x 160 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, to F. Farrington Co., Scherer Bldg. About $200,000.

★**Mich., Flint**—School—St. Mathew's Parish let contract building 2 story, (12 room) rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on Beach St., to Duboise Constr. Co., 1519 North Saginaw St. About $150,000.

★**Ill., Rock Island**—Theatre—Rosenfield & Hopp let contract building concrete, steel and brick, rock foundation, or 19th St. and 3rd Ave., to Brissman & Co., 1412 10th St., Moline. About $250,000.

★**Mo., St. Louis**—School—Bd. Educ. let contract building Roe School, 2 story, 70 x 114 ft., brick, rock foundation, on Prather and Mitchell Sts., to Murch Bros., Ry. Exch. Bldg., $217,520.

★**Tex., Ft. Worth**—Office—N. P. Anderson & Co., Grand and Cotton Exch. Bldg., let contract building 11 story, 60 x 200 ft., concrete, brick and terra cotta, on 7th and Lamar Sts., to W. Hedrick Constr. Co., Ft. Worth Natl. Bank Bldg. About $500,000.

★**Cal., Monterey**—School—Trustees let contract building 14 room, rein.-con. school, here, to T. H. Dean, Monterey, $69,200.

★**Ont., Kingston**—School—Bd. Educ. let general contract building 3 story, (10 room), brick and steel, concrete flooring and foundation, to R. Wallace & Sons, 116 Patrick St., $100,000; electric work, to H. W. Newman Electric Co., Princess St., $5500; plumbing and heating, to Elliot Bros., Princess St., $12,000. Noted June 5.

★**Ont., Orillia**—Bank—Dominion Bank, Dominion Bank Bldg., Toronto, let contract building 3 story, brick, concrete flooring, to E. Webb & Sons, Orillia. About $60,000. Noted Apr. 17.

★**Ont., Toronto**—Hotel—King Edward Hotel, King St., E., let contract altering north wing, to Dickie Constr. Co., Ryrie Bldg. About $50,000.

★**Ont., Toronto**—Store and Office—W. Davies Co., 29 Queen St., W., let contract building 4 story, 36 x 103 ft., concrete, steel and brick, rein.-con. flooring, concrete foundation, to Carswell Constr. Co., 58 Wellington St., Toronto. About $100,-000. Noted Sept. 4.

★**Ont., Windsor**—Bank—Imperial Bank of Canada, 32 Wellington St., E., let contract building 3 story, concrete, steel and brick, rein.-con. flooring, concrete foundation, to Dickie Constr. Co., Ryrie Bldg., Toronto. About $110,000. Noted Sept. 11.

Federal Government Work

PROPOSED WORK

Pa., Phila.—Dredging—U. S. Engr. Office, 815 Witherspoon Bldg., soon receives bids dredging Philadelphia Harbor to depth 35 ft., to begin at foot of Ritner St. and extend up along city front. About $100,000.

Va., Alexandria—Torpedo Storage Racks—Spec. 4111—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build here. About $14,105.

Va., Hampton Roads—Removing and Rebuilding—Spec. 4109—Bureau of Yards & Docks, Navy Dept., Wash., D. C., plans to remove Bldg. "D" from Detroit and re-erect same here.

S. C., Paris Island—Marine Aviation Field—Spec. 4079—Bureau Yards & Docks, Navy Dept., Wash., D. C., soon receives bids developing marine aviation field, here, to include 4 steel frame and 5 wood frame buildings, concrete flooring and foundation. About $100,000; $10 deposit required for plans and spec.

Wyom...—Road Work—J. S. Bright, dist. engr., Bureau Pub. Rds., 301 Custom House, Denver, Colo., receives bids in March improving 8 mi. Encampment Slater Rd., 20 ft. wide, Carlson Co., involving common and rock excav., corrugated metal pipe culverts and short span bridges; 38 mi. Sects. 1-5 and 9-14 Buffalo-Tensleep Rd. Project, 20 ft. wide, Johnson and Washakie Counties, involving 1300 sq.yd. dry rubble, 120 sq.yd. concrete, 120,000 cu. yd. common and 9000 cu.yd. rock excav., 500 lin.ft. piling, 135 lin.ft. log bridges, 4900 sq.ft. log cribs and incidental items. Cost to exceed, $10,000.

Montana—Road Work—Bureau Pub. Rds., U. S. Dept. of Agriculture, Missoula, plans to build 20 mi. Cedar Creek Rd. from near Superior to Cedar Creek Ranger Sta., 8 ft. wide, Mineral Co. About $52,000. C. H. Purcell, Post Office Bldg., Portland, Ore., dist. engr.

Mo., St. Louis—Earth and Levee Work—Mississippi River Comn., 1311 International Life Bldg., soon lets contract building 450,-000 cu.yd. earthwork (327,000 cu.yd. hydraulic fill in old barrow pits and 123,000 cu.yd. levee enlargement) Sny Island D. D., Ill., 260,000 cu.yd. earthwork (172,000 cu. yd. hydraulic fill in old barrow pits and 88,000 cu.yd. on application) for levee enlargement, Hunt D. D., Ill.

Wash., Puget Sound—Dredging—Spec. 4110—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to dredge at Receiving Ship Pier, here. About $8000. Bids to be opened at Navy Yard, here.

Wash., Seattle—Emergency Dam—U. S. Govt. has commissioned C. D. Young, electrical and mechanical engr., Lumber Exch. Bldg., to prepare plans for emergency dam at Ballard Locks in Lake Washington Canal, swing bridge type with movable wickets and steel construction, operated by electricity. About $400,000.

BIDS DESIRED

N. Y., S. I., New Dorp—Barracks and Quarters, etc.—Until Jan. 10, at Office of U. S. Constr. Quartermaster, 39 Whitehall St., New York City, furnishing labor and material for constructing barracks, quarters, mess hall, post exchange, administration building, etc., here.

Pa., McKeesport—Remodeling Post Office—Until Jan. 8, by Treas. Dept., Wash., D. C., remodeling, here. J. A. Wetmore, superv. archt.

Va., Norfolk—Pattern Shop—Spec. 4041—Until Jan. 7, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building 4 story pattern shop, 233 ft. long, 126 ft. wide and 78 ft. 3 in. high to top of parapet at Navy Yard, here. About $300,000; $20 deposit required for plans and spec.

Va., Norfolk—Quay Wall—Spec. 4044—Until Jan. 7, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building, here, uncreosoted timber bearings, batter piles and creosoted fender piles and chocks, etc. Former bids rejected.

Mont., Belton—Bridge—Until Jan. 20, by Dept. of Interior, at office of W. W. Payne, supt., Glacier Natl. Park, Belton, furnishing labor and material for building steel or rein.-con. bridge over middle fork of Flathead River, near Belton.

Federal Government Work (Continued)

Cal., Humboldt Bay—Stone—Until Jan. 5, by U. S. Eng. Office, 401 Custom House, San Francisco, furnishing stone for jetty construction, here.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Watertown**—Storehouse—Constr. Eng., U. S. Army, c/o Arsenal, let contract building 2 story, 50 x 85 ft., brick and steel storehouse, concrete foundation, on Arsenal Grounds, to F. G. Coburn, 295 Washington St., Boston, $52,844.

★**N. Y., New York**—Dredge—U. E. Eng. Office, 39 Whitehall St., let contract building one dipper dredge for East River, to V. R. Browning & Co., 17701 Lake Shore Blk., Cleveland, O. Cost $605,000. Originally awarded for 2 but 1 was revoked.

★**W. Va., Wheeling**—Gate Operating Machinery—U. S. Eng. Office, Wheeling, let contract furnishing and delivering gate operating machinery for Dams. Nos. 23, 25 and 27, Ohio River, to J. B. Milholland Co., New York City, $17,650 each.

★**S. C., Charleston**—Repairing Wharf and Boat House—Treas. Dept., Wash., D. C., let contract repairing, wharf and boat house at Quarantine Sta., here, to Waterfront & Foundation Constr. Co., 51 Broad St., $4107.

S. C., Paris Island—Concrete Walls—Spec. 4096—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Dec. 17, building at Main Sta. Marine Barracks, here, (1) work complete, from W. T. Hadlow, 15 Baldwin Bldg., Jacksonville, Fla., (1) $4800 (90 days), alternate $4600; Waterfront & Foundation Constr. Co., 51 Broad St., Charleston, (1) $6497 (75 days), (2) add $200; Newport Contg. & Eng. Co., Silsby Bldg., Newport News, Va., (1) $8200 (75 days).

Ky., Dawson Springs—Additional Buildings—Treas. Dept., Wash., D. C., received bids Dec. 10, constructing 3 additional buildings, here, (1) work complete, from King Lumber Co., Charlotteville, (1) $594,000 alt. 1, $2000, alt. 2, $1500, alt. 3, $7000, (2) $319,800 alt. 1, $1000, (3) 109,000 alt. 1, $500, (4) $164,000 alt. 1 $150; Dawson Springs Constr. Co., Dawson Springs, (1) $605,764 alt. 1 $2000, alt. 2 $12,000, alt. 3, $10,332, (2) $334,820 alt. 1 $2000, (3) $93,292 (4) $177,652; Forbes Mfg. Co., Hopkinsville, (1) $648,616 alt. 1 $2850, alt 2, $11,500, alt. 3 $9500, (2) $375,264, alt. 1 $260, (3) $97,325 alt. 1 $100, (4) $175,927 alt 1 $150.

Miscellaneous

PROPOSED WORK

Athletic Field—Hanover, N. H.—Dartmouth College receives bids about Mar. 15, building 3 gridirons (football fields), 3 baseball diamonds, 3 hockey rinks, 11 tennis courts, concrete stand on west side of football grounds, 10,000 seating capacity, bleachers on diamond, 1500 seating capacity, drainage system, etc. About $360,000. H. E. Keyes, business dir.

Amusement Park—Hartford, Conn.—S. A. De Waltoff, 67 California St., West Haven, having plans prepared by Berenson & Moses, engrs., 1026 Main St., for amusement park to include swimming pool, roller coaster, restaurant, flying horse, movie houses, etc., at Capitol Park, here. About 300,000.

Disposal Plant—Rochester, N. Y.—City plans to build large garbage and sewage disposal plant.

Monument, Nanticoke, Pa.—City plans to build memorial monument 40 ft. high, 25 x 25 ft., marble and granite, concrete base, on Main St. About $15,000. Architect not selected.

Park Shelter and Pavilion—Lansing Mich.—City plans to build 1 story, 60 x 100 ft. park shelter and pavilion, rein.-con., steel and frame, rein.-con. flooring, steel roof trusses. About $20,000. J. N. Churchill, 514 Oakland Bldg., archt.

Dock—Muskegon, Mich.—Standard Oil Co., Park and Laketon Aves., plans to build piling, timber and concrete dock on Muskegon Lake, with warehouse and pipe lines to railways. About $100,000.

Machinery—Racine, Wis.—Racine Co. appropriated $1000 to purchase road machinery. W. O. Thomas, co. highway comr.

Machinery—Rhinelander, Wis.—Oneida Co. appropriated $15,000 to purchase additional road machinery. F. E. Parker, comr.

Conduit—Sheboygan, Wis.—Citizens Telephone Co., 8th St., plans to build additional conduit and serial cables. About $85,000. Private plans.

Road Machinery—Sheboygan, Wis.—Sheboygan Co. appropriated $6500 to purchase road machinery, to include patrol graders and tools for 15 patrolmen, machinery for county repair shop and gravel screening machinery. G. W. Ubbelohde, comr.

Cement, etc.—Phoenix, Ariz.—City rejected bids furnishing cement, sand, gravel and crushed rock for highways to be paved under $4,000,000 bond issue.

Stadium — Seattle, Wash. — Association Student Body of University of Washington plans to build 1st unit of concrete stadium. Cost, $60,000. Ultimate cost, $400,000.

Tanks—Seattle, Wash.—Genl. Petroleum Co., White Bldg., plans to build 3 steel tanks, 30 ft. high, 113 ft. diameter, concrete foundations. About $90,000.

Dock—Marshfield, Ore.—Port of Coos Bay Comn. having preliminary plans prepared for building water and rail terminal dock and purchase of suction dredge for dredging inlet and main channels. About $250,000. Election soon to vote on bonds for project. J. Polhemus, Marshfield, engr.

Rock Crusher—Portland, Ore.—Comrs. Multnomah Co. plan to install 1 gyratory rock crusher, 150 yd. crusher run rock capacity in 8 hours, to vary evenly in size from screenings to 3 in. largest diameter, at Kelly Butte. Cost to exceed $1000. R. W. Hoyt, chn.

Developing Mining Property — Rogue River, Ore.—Bolan Creek Mining Co. plans to develop mining property on upper Sucker Creek, consisting of 2 mi. creek bed; also install giants and build 3 mi. flume taking water from Sucker Creek near mouth of Boloh Creek, furnishing 400 ft. head flume involving 1,000,000 ft. lumber. About $5000. S. J. Summy, operator.

Trucks, etc.—Salem, Ore.—Marion Co. soon lets contract furnishing 1 or more 3½ ton capacity trucks equipped for hauling gravel, to be delivered by Apr. 1, also 1 factory made paving plant and 1 assembled paving plant, capacity not less than 1250 sq.yd. of 2 in. asphaltic top per day. U. G. Boyer, clk.

Police and Fire Alarm Systems—Calexico, Cal.—City voted $11,000 bonds to install police and fire alarm systems. P. B. Steintorf, city clk.

Canal and Dam — Mendota, Cal. — Mendota Irrigation Dist. plans to build 22 mi. canal and wooden diversion dam to irrigate 87,000 acres. About $500,000. Address E. P. Mitchell, Mendota.

Dams and Tunnel—San Andreas, Cal.—R. W. Olmstead, Manteca, plans to build 2 dams in Littlejohn's and Black creeks, 120 and 130 ft. high, loose rock faced with concrete, ½ mi. tunnel and power plant, here. About $2,000,000.

Bulkhead and Pier—San Diego, Cal.—City voted $250,000 bonds to build concrete bulkhead and filled-in-pier. F. Rhodes, city engr.

Fire Alarm System—San Leandro, Cal.—City plans election to vote on $14,000 bonds to install fire alarm system.

Hydro Electric System—Chatham, Ont.—Pub. Utilities Comn. plans to build extensions to system. About $90,000. J. S. Jackson, Chatham, engr.

Gasholder-Guelph, Ont.—City election in January to vote on $75,000 bonds to build steel gasholder, concrete foundation. F. McArthur, city engr.

Hydro System—Havelock, Ont.—Town Council having plans prepared by Ontario Hydro Comm., Toronto, for Hydro system. Election Jan. 5 to vote on $29,000 bonds for project. J. W. Bryans, clk.

Rink and Stadium—Kingston, Ont.—Queens University plans to build wood, steel, concrete and brick, concrete foundation. About $70,000. Engineer not selected.

Hydro Power System—Uxbridge, Ont.—Town election Jan. 5, to vote on $30,000 bonds to build hydro power system. About $30,000. A. Sler, Ontario Hydro Bldg., Toronto, engr.

BIDS DESIRED

Water Gate Boxes and Covers, Sewer Manhole Frames and Covers—Jersey City, N. J.—Until Dec. 30, by F. A. Dolan, city clk., furnishing and delivering 20 tons water gate boxes and covers and sewer manhole frames and covers.

Asphalt, etc.—Jackson, Miss.—Until Jan. 6, by city, for 300 tons asphalt and asphalt plant. M. L. Culley, engr.

Cranes, etc.—Detroit, Mich.—Until Dec. 29, by J. A. Martin, c/o Dept. Purchases & Supplies. Municipal Courts Bldg., furnishing two 20-ton locomotive cranes. Separate proposals on 3446 lin.ft. 80-lb. rail, 4 switches, 7 frogs, track spikes, etc.

Stone Crusher—New Ulm, Minn.—City Council receiving bids furnishing stone crusher. W. Backer, city clk.

Engines—Stockton, Cal.—Until Jan. 6, by Bd. Supervs. San Joaquin Co. furnishing one 75 h.p. and one 25 h.p. vertical or horizontal oil engine at county farm. E. D. Graham, clk.

Survey Monuments—Toronto, Ont.—Until Jan. 15, by Dept. Lands, Forests & Mines, Surveys Branch, Toronto, furnishing 2500 survey posts, of 1 in. w.i. pipe, 30 in. long, welded foot plate and cement filled. L. V. Rorke, Parliament Bldgs., Toronto, engr.

Pipe, etc.—York, Ont.—Until Jan. 17 by F. Barber, twp. engr., 40 Jarvis St., Toronto, furnishing 5000 lengths 6 in., 1000 lengths 12 in., and 1000 lengths 16 in., c.i. pipe; 500 tons, 6, 12 and 16 in. c.i. specials; 200 6 in., 30 12 in. and 20 16 in. gate valves; 250 hydrants and 250 round c.i. valve covers and frames. About $225,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Pier—Curtis Bay, Md.** (Baltimore, P. O.) —Standard Guano Wks., 1214 Continental Bldg. Baltimore, let contract building 40 x 200 ft., wood pile and timber pier, at plant, here, to Whiting-Turner Co., Stewart Bldg., Baltimore. About $50,000.

★**Condensing Apparatus and Turbine Generator—Ashtabula, O.**—City Council let contract furnishing condensing apparatus for electric lighting plant, to Wheeler Condensing & Eng. Co., Oliver Bldg., Pittsburgh, cost $13,940; turbine generator, to Kerr Turbine Co., Wellsville, N. Y., $23,800.

★**Retaining Wall, Fence and Flag Pole—Cleveland, O.**—Bd. Educ. let contract building concrete retaining wall, 1200 ft. long, 4 ft. high and 12 in. thick, also iron fence, 200 ft. long, and flag pole, involving 3000 cu.yd. excav., at Gladstone Public School grounds, to C. N. Griffen, 5709 Euclid Ave., $23,591.

★**Water Pipe—Dayton, O.**—City let contract furnishing 1250 tons c. i. water mains, various sizes, to United States Cast Iron Pipe & Fdry. Co., 122 South Michigan Ave., Chicago, $80,322.

★**Structural Steel—Lansing, Mich.**—Atlas Drop Forge Co., 209 West Mt. Hope Ave., let contract furnishing structural steel for 150 ft. extension to steel plant and steel storage yard, also for equipment, to include 3 heavy trip hammers, 300 h.p. boiler, and traveling crane, to Wisconsin Bridge & Iron Co., Penobscot Bldg., Detroit.

★**Water and Electric Equipment—Aitkin, Minn.**—City let contract furnishing water and electric equipment, to J. G. Robertson, Wabash and Eustis Sts., St. Paul, $9489.

★**Foundation—Hibbing, Minn.**—Bd. Educ. let contract excavating and building concrete foundation for 2 story, 385 x 400 ft., rein.-con. and brick school, in Central Division, to Swanson Contg. Co., Hibbing, $89,750.

★**Grain Elevator—Kansas City, Mo.**—Chicago, Burlington & Quincy R. R., 547 West Jackson Blvd., Chicago, let contract rebuilding rein.-con. elevator, here, to Burrell Eng. & Constr. Co., 327 La Salle St., Chicago. About $400,000.

★**Water Mains—Bellingham, Wash.**—City let contract furnishing c.i. water mains to be used along West Diagonal Rd., to Oregon Iron & Steel Co., Concord Bldg., Portland, cost $78.50 per ton. Total cost exceeds $5000.

Retaining Wall—San Francisco, Cal.—Bd. Pub. Serv. received bids building 1736 ft. retaining wall on Army St. from Evans Ave. to Iowa St., involving 1500 cu.yd. earth excav., 25,200 sq.yd. mass concrete and 52 tons reinforcing bars, from Healy & Tibbetts, 9 Main St., $40,257, A. H. Vogt, 185 Stevenson St., $43,837, Anderson & Ringrose, 320 Market St., $44,904.

OFFICIAL PROPOSALS

Bids: Jan. 6.

Road Construction

Williamson, W. Va.

Sealed proposals will be received by the Clerk of the County Court of Mingo County, West Virginia, until 2 o'clock p. m. on the 6th day of January, 1920, for the construction of the following section of road, to-wit:

A section of road on Pigeon Creek in said County, beginning at the intersection of road No. 4 (Williamson-Burch Road) with road No. 10, at the mouth of Little Buffalo Creek on said Pigeon Creek, thence up Pigeon Creek according to location of road made by L. C. Linkous, County Road Engineer, to station 264, about one mile above the residence of E. E. Musick on said Creek, making a total distance of about 8 miles.

Plans, specifications and estimates of quantities may be examined at the County Road Engineer's Office, Williamson, W. Va., at the Division Road Engineer's Office, Huntington, W. Va., and at the office of the State Road Commission, Charleston, W. Va.

Proposals will be received only on the standard State forms prepared by the State Road Commission, which may be obtained from the Division Engineer's Office, Huntington, W. Va.

A certified check of not less than Fifteen Hundred Dollars ($1500.00), payable to G. T. Blankenship, Sheriff, must accompany each proposal.

The right is reserved to reject any and all bids.

THE COUNTY COURT OF MINGO COUNTY,
By ALEX BISHOP, President
Attest: ELIHU BOGGS, Clerk.
Dated this 5th day of December, 1919.

Note by Engineer:

The undersigned hereby designates January 2nd and 3rd as the days upon which he will accompany the contractors or their representatives over the proposed section of road.

L. C. LINKOUS,
County Road Engineer.

Bids: Jan. 27.

Construction of Steel Water Towers and Tanks

Avoca, Iowa.

Sealed proposals will be received by the Town of Avoca, Iowa, until 8:00 o'clock P.M. on the 27th day of January, 1920, for furnishing all materials, labor and tools required in the construction of (1) a steel water tower and wood tank complete, (2) a steel water tower and steel tank complete and (3) a concrete water tower and tank complete, each tower and tank to be about 105 feet high and 100,000 gallons capacity and in accordance with plans and specifications now on file in the office of the Clerk of said Town. Copies of "Instructions, Bidding Blank, Specifications, Plans and Contract" may be obtained from the Town Clerk.

FRANK WISE,
Clerk.

Bids: Feb. 1.

Drawings for City Auditorium

City of Mitchell, S. D.

The City Council of the City of Mitchell are desirous of receiving Drawings for a City Auditorium, to cost approximately $150,000. Three prizes are offered for the best designs submitted, ($450, $300, and $150).

The program governing competition, together with Plat of site and full instructions, will be sent on request by the undersigned.

All drawings, to receive judgment and consideration, must be at the Office of the undersigned by February 1st, 1920.

THOMAS EASTCOTT,
City Auditor.

Bids: Jan. 9.

Constructing 48-Inch Force Main

CITY OF AKRON, OHIO,
DEPARTMENT OF PUBLIC SERVICE
WATERWORKS IMPROVEMENT
Contract No. 164.

Akron, Ohio.

Sealed proposals for constructing a 48-inch pipe line will be received at the Office of the Director of Public Service, Delaware Building, Akron, Ohio, until twelve o'clock noon, Central Standard time, of Friday, the ninth day of January, 1920, at which time and place they will be publicly opened and read.

The contract includes the furnishing and laying of approximately 4.1 miles of pipe line, together with appurtenances, between the Cuyahoga River Pumping Station and the crossing of the Cuyahoga River south of Kent.

Alternative bids will be received as follows:

Bid "A": Furnishing pipe and special castings for a 48-inch cast iron line.

Bid "B": Laying 48-inch cast iron line.

Bid "C": Furnishing and laying 48-inch lock bar steel pipe.

Bid "D": Furnishing and laying 50-inch riveted steel pipe.

All proposals must be made on the forms furnished by the City.

Each bidder must accompany his proposal with a satisfactory bond or certified check in the sum of Fifteen Thousand Dollars ($15,000.00).

A surety bond in the amount of fifty (50) per cent of the amount of the contract will be required of the successful bidder.

Plans and specifications may be seen at the office of the Director, or copies may be obtained from the Bureau of Water Works Improvement, 102 E. Mill St., Akron, Ohio, upon deposit of Ten Dollars ($10.00), which sum will be refunded on return of the plans and specifications in good condition within ten days after the award of the contract.

The right is reserved to reject any or all bids.

H. S. MORSE,
Director, of Public Service.
G. G. DIXON, Engineer. H. H. FROST, Supt. Water Works.

Bids: Jan. 20.

Waterworks Improvements

Lexington, N. C.

Sealed proposals will be received by the Mayor and Board of Town Commissioners of the Town of Lexington, N. C., at the Town Hall in Lexington, N. C., until 4 p.m. Jan. 20, 1920, for waterworks improvements.

The work will consist of the following:

Brick and concrete pumping station, filter house and filter tubs.

Brick and concrete auxiliary station.

Concrete coagulating basin.

Concrete storage reservoir, 500,000 gal.

Three and one-half miles of cast-iron pipe line.

Three and one-half miles of 2200-volt transmission line.

Motor-driven centrifugal pumps and accessories.

Filter plant equipment.

Proposals must be marked, "Proposal for Waterworks Improvements."

All bids must be upon the blank forms provided in, "Proposal, Specifications and Contracts."

Each bid must be accompanied by a certified check for not less than 5% of the amount of the bid, as evidence of good faith.

Plans and specifications will be on file at the Clerk's Office in Lexington, and at the Office of the Engineer, in Durham, N. C., and copies of the specifications, form of proposal, etc., will be mailed upon application to the Engineer at Durham, N. C.

The right is reserved to reject any or all bids.

J. T. HEDRICK, Mayor.
Engineer: J. V. MOFFIT, Clerk.
GILBERT C. WHITE,
Durham, N. C.

Bids: Jan. 5.

Paving

Fayetteville, W. Va.

Sealed proposals will be received at the office of the Clerk of the County Court, Fayetteville, W. Va., until January 5th, 1920, for paving one section of the Midland Trail, through Nuttall District, of approximately 8.0 miles. Grading and drainage complete. Bids will be received on Portland Cement Concrete, Bituminous Macadam (Penetration) and other improved types of paving.

Bids must be submitted on the blank form contained in the book of specifications, which with other information may be obtained upon application to J. K. McGrath, Road Engineer, Fayetteville, West Virginia.

A certified check for five per cent. of the proposal, made payable to the Sheriff of Fayette County, shall be filed with the bid. The County Court reserves the right to reject any and all bids.

J. K. McGRATH, Road Engineer.
By order of the County Court of Fayette County, West Virginia.
H. O. BOLEY President.
Dec. 10, 1919. C. E. MAHAN, Clerk.